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THE CHEMIST AND DRUGGIST

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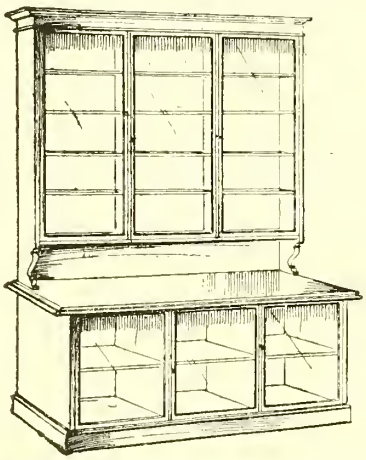

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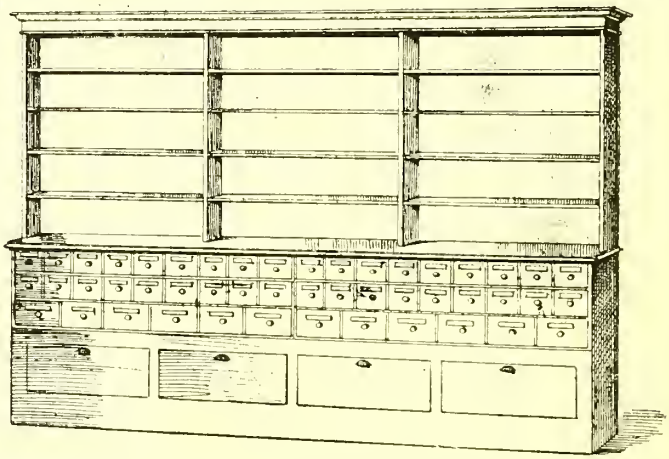

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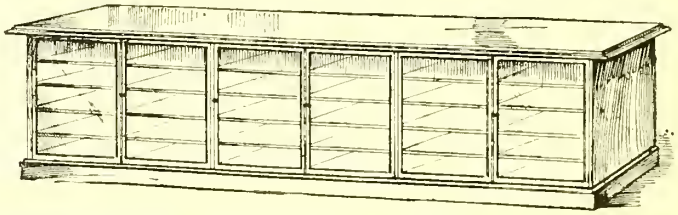

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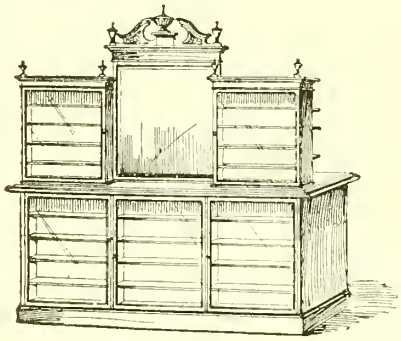

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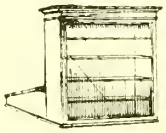

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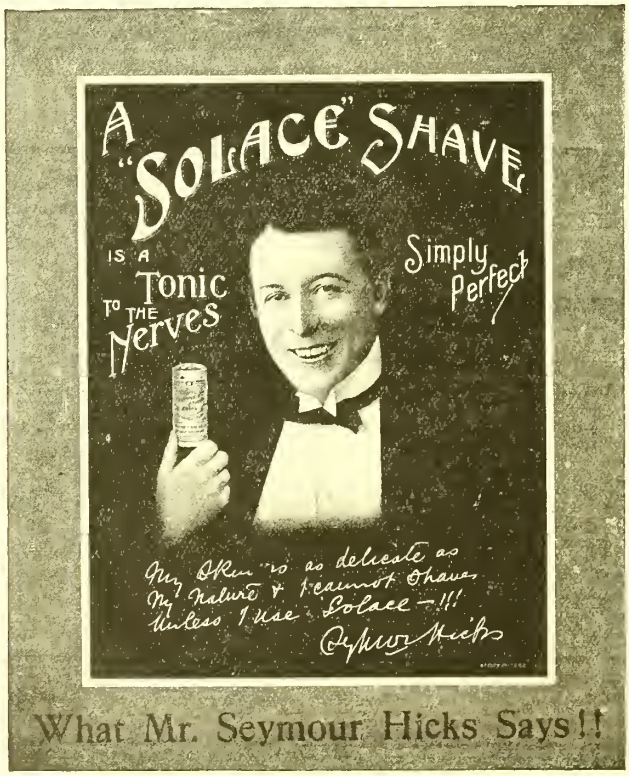

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CIGARS AND CIGARETTES
Hovenden, R., & Sons, Ltd.
Singleton & Cole, Ltd.

CITRIC ACID AND CITRATES
British Drug Houses, Ltd.
Howards & Sons, Ltd.
Morson, T., & Son
Sturge, John & E.

CLOTH BALLS
O'Neil Zetts & Co.
Senier, A., & Co

COCOA
Cadbury Bros., Ltd.
Frame Food Co.
Oppenheimer, Son & Co., Ltd.

CLINICAL THERMOMETERS
Burge, Warren & Ridgley, Ltd.
Darton, F., & Co.
Hicks, J. J.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Zeal, G. H.

COAL TAR SPECIALITIES
Wright, Layman & Umney, Ltd.

COD-LIVER OIL
Albrethson, A., & Co.
Allen & Hanburys, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Bush, H. W., & Co., Ltd.
Devold, Peder
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Lloyd, T. Howard, & Co.
Oldfield, Pattinson & Co.
Southall Bros. & Barclay, Ltd.
Woolley, Jas., Sons, & Co., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, A. & M.
Zimmermann, C., & Co.

COLOURS, BEVERAGE, &c.
Boake (A.), Roberts & Co., Ltd.
Cresp-Martineng
Stevenson & Howell, Ltd.
(*See also* DAIRY ADJUNCTS)

COMBS
Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Sangers'

CORKS
Mitchell, N. W., & Sons, Ltd.

COUNTER ADJUNCTS
Evans Sons Lescher & Webb, Ltd.

COUNTER SPECIALITIES
Allen & Hanburys, Ltd.
British Drug Houses, Ltd.
Hewlett, C. J., & Son
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay, Ltd.
Woolleys, Ltd.

CREAM OF TARTAR
British Drug Houses, Ltd.

CREOSOTE
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood
Morson, T., & Son

CREPE BANDAGES
Gimber, W., & Son
Norwich Crêpe Co. (1856), Ltd
Wood, Vincent

CYANIDES
May & Baker, Ltd.

DAIRY SPECIALITIES
Benger's Food, Ltd.
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

DEMIJOHNS
Breffit, E., & Co., Ltd.

DENTAL MECHANICS
Fentiman, A. G.
Fentiman, A. J., & Co.
Halder, E. C.
Wardale & Co.

DENTIFRICES
Beecham, T.
Beiersdorf, P., & Co.
Bell, John, Hills & Lucas, Ltd.
Blackie, R.
Burroughs Wellcome & Co.
Calvert, F. C., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Eucryl, Ltd.
Jewsbury & Brown
Lambert Pharmacal Co.
McKesson & Robbins
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Standard Tablet & Pill Co.
Woods, W., & Son
Woolley, J., Sons & Co., Ltd.

DIABETIC BREAD AND FOOD
Callard & Co.
Van Abbott, G., & Sons

DIGESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Zimmermann, C., & Co.

DISINFECTANTS
Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Condy & Mitchell, Ltd
Cook, E., & Co., Ltd.
Dalmas, A. de St., & Co.
Edwards, W., & Son
Jeyes' Sanitary Compounds, Ltd.
Kay Bros., Ltd.
Lambert Pharmacal Co.
Roberts, Cornford & Co.
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Chemists' Co-operative Wholesale
Christy, T., & Co.
Cook, Alfred, & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb
Fecher, M. J.
Gutmann, A. E., & Co.
Hay, J. B., & Co.
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd.
Johnsen & Jorgensen, Ltd.
Lennon, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Quelch, H. C., & Co.
Renter, R. J.
Sangers'
Schutze, F., & Co.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Viscose Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE
Holzmuller & Schmidt
Horner & Sons
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DYES
Judson, D., & Son
Whitaker & Co.

EAU DE COLOGNE
Breidenbach & Co.
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co.
McCracken, J. & R.
Schutze, F., & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of England College of Pharmacy
Birmingham and Midland College of Pharmacy
British Optical Institute
Edinburgh Central School of Pharmacy
Glasgow School of Pharmacy
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School of Pharmacy
North of England School of Pharmacy
Northern College of Pharmacy
South of England College of Pharmacy
Westminster College of Pharmacy

EFFERVESCENT PREPS.
Allen & Hanburys, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
Cox, A. H., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Kutnow, S., & Co., Ltd.
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Newball & Mason
Potter & Clarke
Standard Tablet & Pill Co.
Sturge, John & E.
Tidman & Son, Ltd.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney

ELASTIC HOSIERY
Ayrton, Saunders & Co., Ltd.
Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H.
Jackson, Röhrs, & Co.
Maw, S., Son & Sons
Wood, Vincent

EMERY AND CLOTH
Oakey, J., & Sons, Ltd.

EMULSIONS, COD-LIVER OIL, ETC.
Allen & Hanburys, Ltd.
Ayrton, Saunders & Co.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
British Drug Houses, Ltd.
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Harker, Stagg & Morgan, Ltd.
Lorimer & Co., Ltd.
Oldfield, Pattinson & Co.
Scott & Bowne, Ltd.
Parke, Davis & Co.
Woolley, Jas, Sons, & Co.
Woolleys, Ltd.

EPSOM SALTS
Howards & Sons, Ltd.

ESSENCES, CONCRETE
Lautier Fils
Murray, O., & Co., Ltd.
Roure-Bertrand fils
Schmoller & Bompard

ESSENCES, SOL. AND FRUIT
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
Barnett & Foster
Boake (A.), Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Cresp-Martinenq
Evans Sons Lescher & Webb
Hay, Wm., Ltd.
Lautier Fils
London Essence Co.
Lorimer & Co., Ltd.
Newball & Mason
Roure-Bertrand fils
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Zimmermann, A. & M.

NEMAS
Bailey, W. H., & Son
Burge, Warren & Ridgley
Davol Rubber Co.
Hay, J. B., & Co.
Ingram, J. G., & Son
Maw, S., Son & Sons
Toogood, W., Ltd.
Warne, W., & Co., Ltd.

THERS
Baiss Bros. & Stevenson, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

UCALYPTUS OIL
British Drug Houses, Ltd.
Baiss Bros. & Stevenson, Ltd.

XTRACT OF HERBS
Newball & Mason
Potter & Clarke

XTRACTS (MEDICINAL)
Allen, Stafford, & Sons, Ltd.
Chemists' Co-operative Wholesale
Hewlett, C. J., & Son
Parke, Davis & Co.
Ransom, W., & Son
(*See also* WHOLESALE DRUGGISTS)

EEDING BOTTLES
Breffit, R., & Co., Ltd.
Fecher, M. J.
Hovenden, R., & Sons, Ltd.
Kilner Bros., Ltd.
Maw, S., Son & Sons
Sangers'
Southall Bros. & Barclay, Ltd.
Taylor, F. H., & Sons

LTERS (WATER)
Berkefeld Filter Co., Ltd.

ISH GLOVES
Sangers'

FLCATCHERS
Alabastine Co. (British), Ltd.
Beansmere Manfg. Co.
Ford, Shapland & Co.
Howein, O.
Hay Bros., Ltd.
Lange's, H., Successors
Smith, J. H., & Co.
Strong, Christy
Tanbridge & Wright

FORMALDEHYDE
Burt, Boulton & Haywood

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd.
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Burt, C. J.
Callard & Co.
Fairchild Bros & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Miol Manufacturing Co.
Natural Food Co., Ltd.
Wander, A.

FRUIT CRYSTALS
Aerators, Ltd.

FULLER'S EARTH
Mumford, G. S., & Sons

FUMIGATORS
Sanitas Co., Ltd.

GELATIN AND GLUE
Boehm, F., Ltd.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN
Boehm, F., Ltd.
Price's Patent Candle Co.

GOLD PAINT
Judson, D., & Son

GRINDERS
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

HAIR PREPARATIONS
Capsuloids (1909), Ltd.
Chesebrough Manfg. Co.
Dralle, Georg.
Edwards' "Harlene" Co.
Harker, Stagg & Morgan
Herpicide Co.
John Bull Hair Food
John Strange Winter
Martiné & Co.
Robare's Anreoline
Rowland, A., & Sons
Woolleys, Ltd.

HAIR WAVERS AND CURLERS
Merkham Trading Co., Ltd.

HAT DYES
Whitaker & Co

HAT RENOVATORS
Christy, T., & Co.

HEATING FLASKS
Gutmann, A. E., & Co.

HERBS
Potter & Clarke

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Southall Bros. & Barclay
Wood, Vincent

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

INHALERS
Christy, T., & Co.
Fecher, M. J.
Sangers'
Taylor, F. H., & Sons

INK
Bewley & Draper, Ltd.
Hickisson, A. B.

INSECT POWDER
Boehm, F., Ltd.
Smith, B. A., & Co.

INSECTICIDES
Christy, Thos., & Co.
Corry & Co., Ltd.
Smith, B. A., & Co.
Tomlinson & Hayward, Ltd.
Voss, Walter, & Co.
Woolleys, Ltd.

IODINE AND IODIDES
Howards & Sons, Ltd.
Merck, E.
Morson, T., & Son

ITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, R., & Co., Ltd.
Cook, A., & Co.
Johnsen & Jorgensen, Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
Poths, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Taylor, F. H., & Sons
Toogood, W., Ltd.

LACTIC FERMENTS
Allen & Hanburys, Ltd.
Cox, Arthur H., & Co., Ltd.
Martindale, W.
Parke Davis & Co.
Wilcox, Jozeau & Co.

LAMPS, DISINFECTING
Roberts, Cornford & Co.

LANOLINE
Burroughs Wellcome & Co.
Christy, T., & Co.
Sangers'

LARD
Chemists' Co-operative Wholesale
Ewen, J., & Sons

LIME AND JUICE CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Vernon & Co., Ltd.

LIQUORICE JUICE
Boehm, F., Ltd.
British Drug Houses, Ltd.
Evans, Gray & Hood
Evans Sons Lescher & Webb, Ltd.
Horner & Sons
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Allen, Stafford, & Sons, Ltd.
Fletcher & Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
May & Baker, Ltd.
Merck, E.

LOOFAHS
Cresswell Bros. & Schmits

LOZENGES
Allen & Hanburys, Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Jackson, E. E.
Potter & Clarke
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Brown & Son
Fecher, M. J.
Gardner, Wm., & Sons, Ltd.
"Hercules" Meat Juice Press
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd.
Washington Chemical Co.

MAILING CASES
May, Roberts & Co.

MALT EXTRACT AND PREPS.
Allen & Hanburys, Ltd.
Baiss Bros. & Stevenson, Ltd.
Blackie, R.
British Dia Malt Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd
Southall Bros. & Barclay, Ltd.
Squire & Sons
Woolley, Jas., Sons & Co., Ltd
Wright, Layman & Umney

MARKING INK
Hickisson, A. (Bond's)

MEAT EXTRACT
Armour & Co., Ltd.
Brand & Co., Ltd.

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co.

MENTHOL CONES
Maw, S., Son & Sons

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E.
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F. & Co.

METHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MILK APPARATUS
Zimmermann, C., & Co.

MILK BYPRODUCTS
Casein, Ltd.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Hughes E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

NAPHTHAS
Burt, Boulton & Haywood

NASAL DOUCHES
Taylor, F. H., & Sons

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson
Boake (A.), Roberts, & Co., Ltd.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Cresp-Martinenq
Evans Sons Lescher & Webb, Ltd.
Holzmuller & Schmidt
Horner & Sons
Jakson, J., & Co.
Lautier Fils
Lhermine & Cie.
London Essence Co.
Matthew, Jesse
Mühlethaler, Th., Ltd.
Pasquale, S. F. de, & Fratelli
Poppelreuter, W.
Ransom, W., & Son
Roure-Bertrand fils
Sachsse, E., & Co.
Schimmel & Co.
Schmoller & Bompard
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Todd, A. M., Co.
Wright, Layman & Umney
Zimmermann, A. & M.

OILS, FATTY, ETC.
Allen, Stafford & Sons, Ltd.
Cresp-Martinenq
Price's Patent Candle Co.
Smith, B. A., & Co.

OILS, MINERAL
Price's Patent Candle Co
Wright, Layman & Umney

OINTMENTS
Blackie, R.
Chemists' Co-operative Wholesale
Oldfield, Pattinson & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd
Nitsche & Günther
Raphael's, Ltd.

OPTICAL INSTRUCTION
British Optical Institute

OTTO OF ROSE
Bontcheff & Kidoff
Pappazoglou, D.
Reitmeyer & Co. (synthetic)
Seraphimoff, S., & Co.
Shipkoff & Co.

PASTILLES
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Baiss Bros. & Stevenson
Burroughs Wellcome & Co
Denoual, J., & Co.
Evans Sons Lescher & Webb
Warrick Bros.

PACKED GOODS
(*See* WHOLESALE)

PALATINOIDS
Oppenheimer, Sons & Co.

PATENT AGENT
Barker, R. W.

PERFUME MATERIALS
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Cresp-Martinenq
Lautier Fils
Mühlethaler, Th., Ltd.
Murray, O., & Co., Ltd.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Treatt, R. C., & Co.
Zimmermann, C., & Co.

PERFUMES
Allen & Hanburys, Ltd.
Barclay & Sons, Ltd.
Breidenbach & Co.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Cresp-Martinenq
Dralle, Georg.
Erasmic Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Quelch, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mfg. Co.
Warrick Bros.
West, T.
Yardley & Co., Ltd.

PESSARIES
Burge, Warren & Ridgley
Rendell, W. J

PETROLEUM EMULSION
British Drug Houses, Ltd.

PETROLEUM JELLY
Chesebrough Mfg. Co.

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Lockyer, J. E.
Merck, E.

PHOTO. GOODS
Barclay & Sons, Ltd.
Darton, F., & Co.
Evans Sons Lescher & Webb
Halifax Photographic Co.
Ilford, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Murdoch, John, & Co.
Newbery, F., & Sons, Ltd.

PHOTO. ENLARGERS, PRINTERS, &c.
Express Developing Co.
Halifax Photographic Co.

PILL MAKERS
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Hewlett, C. J., & Son
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Pill, Tablet, & Capsule Alliance
Southall Bros. & Barclay
Standard Tablet & Pill Co.
Wand Mfg. Co.
Warner, W. R., & Co.
Woolley, J., Sons & Co., Ltd.

PLASTERS
Allcock Mnfg. Co.
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Leslies, Ltd.
Maw, S., Son & Sons
Solport Bros.

POLISHES (VARIOUS)
Bradley & Bourdas
Judson, Daniel, & Son
Oakey, J., & Son, Ltd.

PROPRIETARY ARTICLES
American Drug Stores
Anglo-American Drug Co.
Anglo-American Phar. Co., Ltd.
Ashton & Parsons, Ltd.
Atkinson & Barker
Barclay & Sons, Ltd.
Battle, Son & Maltby
Beecham, T.
Beiersdorf, P., & Co.
Box, W. H.
British Drug Houses, Ltd.
Capsuloids (1909), Ltd.
Cardinal Mnfg. Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Cox, A. H., & Co., Ltd.
Curry, Henry
Daggett & Ramsdell
Daisy, Ltd.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Day, Son & Hewitt
Denoual, J., & Co.
Edwards, W., & Son
Elliman, Sons & Co.
Evans Sons Lescher & Webb
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co.
Fulford, C. E., Ltd.
Giles, H. G., & Co.
Goodall, Backhouse & Co.
Grapelax, Ltd.
Greeff, R. W., & Co.
Guy's Tonic Co.
Heala Manufacturing Co.
Henry, T. & W.
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Co.
International Chemical Co.
Iron-Ox Rem. Co., Ltd.
Kay Bros., Ltd.
Knitnow, S., & Co., Ltd.
Lalor's, Dr., Phosphodyne
Lambert Pharmacal Co.
Lofthouse & Saltmer
Lorimer & Co., Ltd.
May Roberts & Co.
Menley & James, Ltd.
Miol Manufacturing Co.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedezy Co.
Powell, Thomas, Ltd.
Resinol Chemical Co.
Richards, J. M., & Sons
Rubwel Co.
Sangers'
Savaresse's Capsules (Evans)
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thompson & Capper
To-Kalon Mfg. Co.
Tunbridge & Wright
Wilcox, Jozeau & Co.
Zotos, Ltd.
(*See also* DENTIFRICES and TOILET ARTICLES)

PRINTERS
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Smith, W. H., & Son
Townsend, J., & Sons

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Boehringer, C. F., & Soehne
Howards & Sons, Ltd

RAZORS
Auto-Strop Safety Razor Co.
Hovenden, R., & Sons, Ltd.

RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS
Zimmer & Co.

RUBBER GOODS
Davol Rubber Co.
Burge, Warren & Ridgley, Ltd.
Evans Sons Lescher & Webb, Ltd.
Fecher, M. J.
Galen Mfg. Co.
Haywood, J. H.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Warne, W., & Co., Ltd.

SACCHARIN
Saccharin Corporation, Ltd.

SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SALICYLATES
Bayer Co., Ltd.

SAMPLE CASES
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.
Sthamer, Dr. R.

SAUCES
Goodall, Backhouse & Co.

SCALE PREPARATIONS
Morson, T., & Son

SCRUBBERS
Lange's, H., Successors

SEA SALT
Tidman & Son, Ltd.

SEA-SICKNESS REMEDY
Zotos, Ltd.

SELTZOGENES
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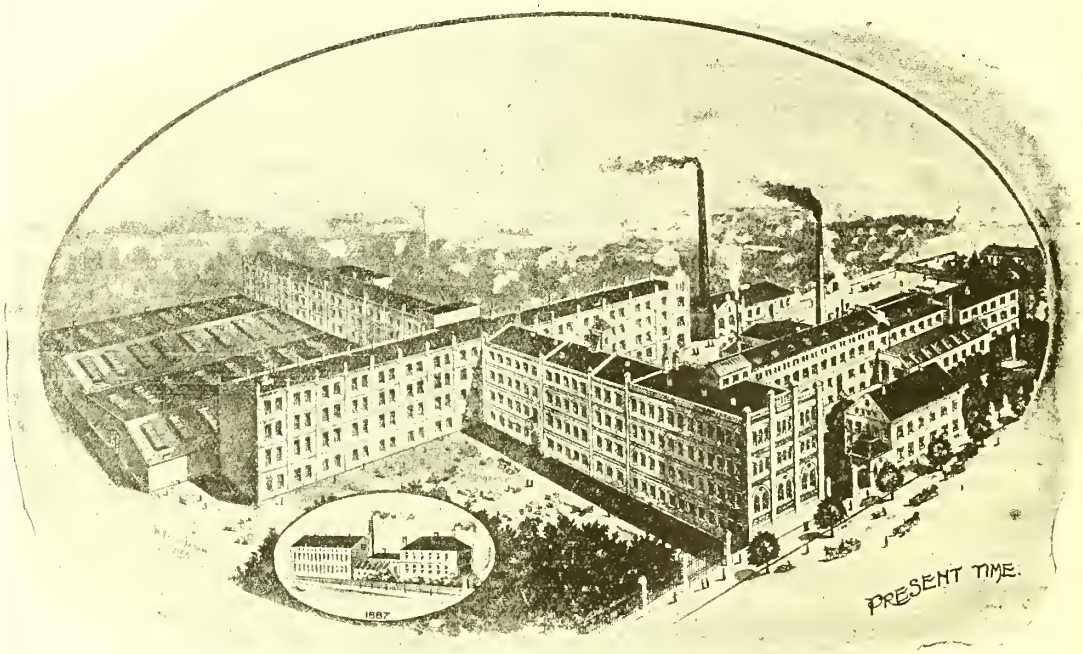

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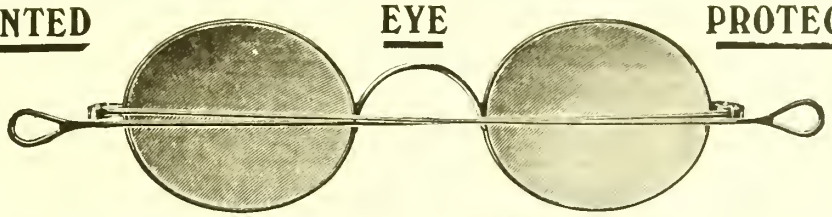

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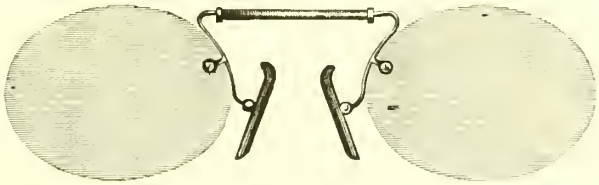

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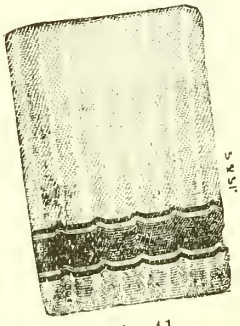


Fig. 41.

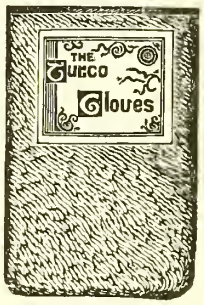
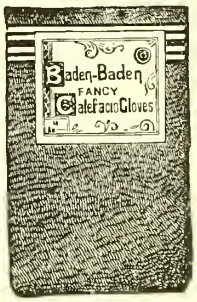


Fig. 1.



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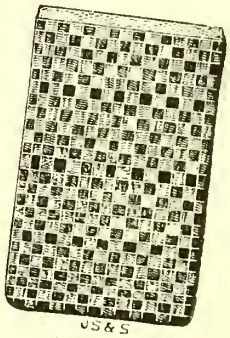
Fig. 13.

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,, 3.	,, ,, ,, bound	0	4	0	3/5
,, 4.	,, ,, ,, ,, ...	0	4	6	3/10
,, 5.	,, ,, ,, ,, ...	0	5	6	4/9
,, 6.	,, ,, ,, ,, extra thick...	0	6	9	5/9
,, 16.	**Fancy Turco**	0	4	0	3/5
Fig. 41.	**White,** thick fancy stripe...	0	5	6	4/9
,, 47.	,, ,, ribbed	0	5	6	4/9
No. 44.	,, ,, unbound, red, white stripe	0	2	9	2/4
Fig. 13.	**Creole,** assorted fancy, unbound	0	4	6	3/10
No. 15.	**Duchess of Edinburgh,** Honeycomb	0	6	9	5/9
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Fig. 42.	**Alexandra,** unbound, white, coloured stripes	0	5	0	4/3
,, 43.	**Westminster,** bound, white, with blue or pink markings	0	6	0	5/2
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Fig. 40.	,, ,, ...	0	2	3	1/11
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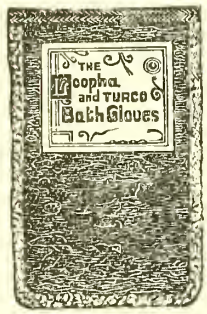


Fig. 22.

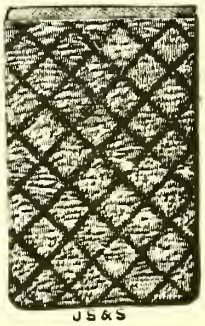


Fig. 43.

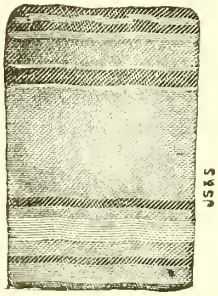
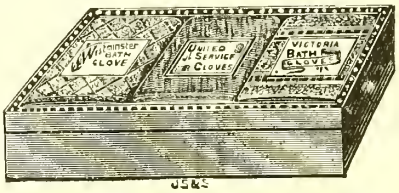


Fig. 40.



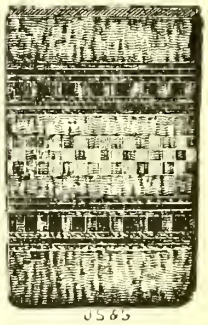


Fig. 42.

258 EUSTON ROAD, LONDON, N.W.

PARNALL & SONS, Ltd.

SPECIALISTS in SHOP FRONTS and FITTINGS for CHEMISTS and DRUGGISTS.

SHOP FRONT IN MAHOGANY DESIGNED AND ERECTED BY US AT CHELSEA.

CATALOGUES FREE. INQUIRIES INVITED.

NARROW WINE STREET, BRISTOL

LONDON:
10 Rood Lane, E.C.

SWANSEA:
Alexandra Road.

100% PROTECTED PROFIT.

Prices of Eucryl Tooth Powder to the Trade.

OPENING ORDERS

BUYING PRICE.	£	s.	d.
3 doz. 6*d*. tins at 3/6 doz.... ...	0	10	6
1 doz. 6d. free (for counter display)	-	-	-
Free samples, showcards, etc. ...	-	-	-
Carriage Paid ...	£0	10	6

SELLING PRICE.	£	s.	d.
4 dozen at 6*d*.	1	4	0
	£1	4	0

REPEAT ORDERS.

BUYING PRICE.	£	s.	d.
3 doz. 6*d*. tins at 3/6 doz.	0	10	6
½ doz. 6*d*. free (for counter display)	-	-	-
Free samples, showcards, etc. ...	-	-	-
Carriage Paid ...	£0	10	6

SELLING PRICE	£	s.	d.
3½ dozen at 6*d*.	1	1	0
	£1	1	0

EUCRYL TOOTH POWDER.

To be obtained from all the Principal Wholesale Houses, or direct from The Proprietors,

EUCRYL LIMITED, HULL.

HAVE YOU SEEN THE . . .

"MAY QUEEN" TOILET SOAP.

A Delicately Perfumed Powdered . . .

PACKED IN PRETTILY DECORATED SPRINKLERS.
The only Safe and Sanitary way to use Soap for the Toilet, Bath and Shaving.

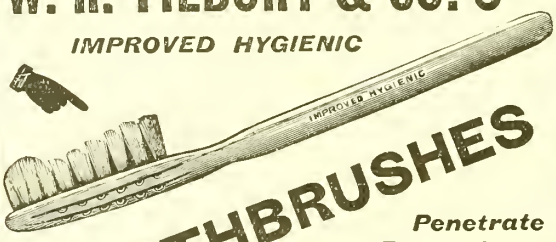
GUARANTEED the PUREST Toilet-Soap Made.

Write for Sample.

HENRY SHAW & Co., Dukinfield.

W. R. TILBURY & CO.'S

IMPROVED HYGIENIC

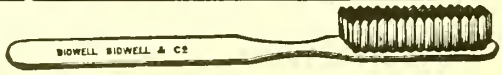


TOOTHBRUSHES

Penetrate Everywhere.

IN THREE SIZES.

HACKNEY, LONDON



BIDWELLS'

GOLD MEDAL

TOOTH BRUSHES.

ILLUSTRATED CATALOGUE FREE ON APPLICATION.

HEAD OFFICE AND FACTORIES:

AXMINSTER, DEVON. ESTD. 1839.

The number of dentifrices is myriad, their names are legion,

But—

in principle and in efficiency there is but one,

CALOX

THE OXYGEN TOOTH POWDER.

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder. Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, *London, Eng.*

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX, acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, *London.*

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A. plan.

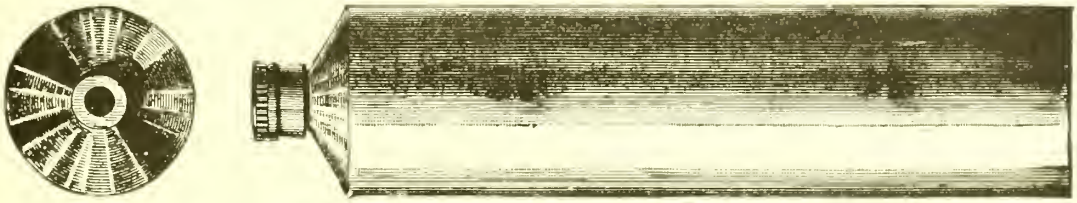
McKESSON & ROBBINS, New York, U.S.A., *Manufacturers.*

BRITISH DEPOT— A. C. WOOTTON, 14 Trinity Sq., Tower Hill, London, E.C.

METALLIC COLLAPSIBLE TUBES

For Paints, Perfumes, Shaving Creams, Soaps, Oils, &c.

Speciality: COLOURED and ORNATE TUBES.



SAMPLES AND PRICES ON APPLICATION.

L. LUMLEY & CO. Ltd., 1 America Square, LONDON, E.C.

CREMOGEN.

A CONCENTRATED BASE FOR ECONOMICALLY PRODUCING TOILET CREAM SKIN FOOD, TOILET LANOLINE, &c.

Admirably adapted for preparing Witch Hazel Snow.

CREMOGEN can take up six or seven times its weight of water, forming a snow white Cream free from grease or stickiness.

Sold in pound tins, 2/6 post free.

Samples and particulars from—

FRANCIS NEWBERY & SONS, Ltd., 27 CHARTERHOUSE SQUARE, LONDON, E.C.

"Erasmic"

WINDOW DISPLAY COMPETITION.

April 1st to August 31st, 1909.

£250 CASH PRIZES £250

THE FIRST PRIZE OF £50 MAY BE YOURS.

Special Bonus Offer for Display.

. . FOR TERMS, APPLY . .

THE ERASMIC CO. Ltd., WARRINGTON.

"B.&K." BRAND OTTO OF ROSE

GUARANTEED PURE. DISTILLED BY BONTCHEFF & KIDOFF OF KAZANLIK.

SOLE AGENTS IN THE UNITED KINGDOM:

Fredk. Boehm Ltd

16 Jewry Street, London, E.C.

Wholesale Quantities only.

PRIVATE Brand Makers of Toilet and Medicinal Soaps

Manufactured by us so that they reflect credit upon you and your goods.

TOILET SPECIALITIES FOR THE TRADE.

H. BRONNLEY & CO., Ltd., *Warple Way, ACTON, LONDON, W.*

Our Factory is within five minutes' ride of Shepherds Bush and Hammersmith Tube and Railway Stations. Acton Trams and Buses pass the door.

LAVONA DE COMPOSÉE

AND

FLOWERS OF OXZOIN

ARE REDUCED IN PRICE

TO-KALON PERFUME (French Fon Fleur)

is now put up in 2 dram as well as 1 oz. bottles.

Obtainable from all the Leading Wholesale Houses.

ALL OUR GOODS ARE ON THE P.A.T.A. LIST.

TO-KALON MANUFACTURING CO.

Albion House, 61 New Oxford Street, London, W.C.

SANFORD & SON,

SANDY, BEDS.

MANUFACTURERS AND PROPRIETORS OF SANFORD'S

RAT, MICE & MOLE POISONS.

Successfully Used for 50 Years.

Yield 85% profit. Sold by all Wholesale Houses, or of

SANFORD & SON, SANDY.

IN TINS, 6d. TO 5/- EACH.

Elastic, Rubberless, Washable, Hygienic, Fast Edges, Cool, Light, Porous.

CRÊPE BANDAGES.

SUPERIOR ENGLISH MANUFACTURE.

From 3/9 doz. In all widths and qualities. Manufactured by—

THE NORWICH CREPE CO. (1856) Ltd., St. Augustines, NORWICH.

Samples Free. Special Terms for Quantities.

OTTO OF ROSE

Guaranteed Absolutely Pure.

S. SERAPHIMOFF & CO., KEZANLIK, BULGARIA.

Distillers of Pure Essence of Rose. Estab. 1880.

GOLD MEDAL, PARIS, 1900. GOLD MEDAL & DIPLOMA OF HONOUR, LIEGE, 1905. GRAND PRIZE, MILAN, 1906. GRAND PRIZE, LONDON, 1907.

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Essential Oils.

Neroli, Petit Grain, Lavender, Geranium, Orange, &c.

VIOLET FLOWER POMADES.

PERFUMES.

E. Lhermine & Cie.

NICE, FRANCE.

"ODOURESSENCES" and

CONCENTRATED PERFUMES

free from Alcohol.

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D. Pappazoglou,

KEZANLIK, BULGARIA.

FINEST GENUINE

OTTO OF ROSE.

I make a speciality of pure oil with lowest natural percentage of stearoptene.

Sole Agent: W. NAUMANN,

U.K. & Colonies]. 63 Bartholomew Close, London, E.C.

FORMALIN THROAT TABLETS.

The Popular Antiseptic for Preventing Infection from Diphtheria, etc.

In Amber Bottles, each 50 Tablets.

ROSE, MINT, MENTHOL, or LEMON FLAVOUR.

PRICE 5/6 PER DOZ.

Manufactured by

Jules Denoual & Co.

Carlton Works, ASYLUM ROAD, LONDON, S.E.

DENTIFRICES "FRIEDERICH."

Free from Acids.

HIGHEST AWARDS AT ALL THE PRINCIPAL EXHIBITIONS.

TOOTH PASTE in Glass Pots.
ON THE P.A.T.A.

8d. size, **5/3** doz.; 1/8 size, **13/-** doz.

SOLE AGENTS:

Jules Denoual & Co.

Carlton Works, ASYLUM ROAD, LONDON, S.E.

1

PRICE'S GLYCERIN.

GUARANTEED CHEMICALLY PURE.

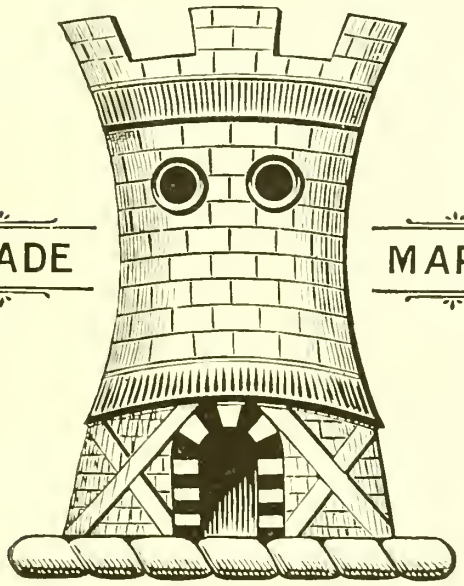
Since its introduction in 1855, PRICE'S GLYCERIN has maintained an unrivalled position, and can be confidently recommended on account of its reputation for unsurpassed purity and for the uniformity of its quality.

GRAND PRIZE FRANCO-BRITISH EXHIBITION AND HIGHEST AWARDS AT ALL THE GREAT EXHIBITIONS.

PRICE'S PATENT CANDLE COMPANY, LIMITED,

LONDON, LIVERPOOL & MANCHESTER.

"TOWER" BRAND
ESTABLISHED 1856.



TRADE MARK

REGISTERED.

MITCHAM OILS

OF UNDOUBTED PURITY & EXCELLENCE.

PEPPERMINT, LAVENDER, CHAMOMILE

(SUPERLATIVE QUALITY)

PURE RAW OILS ONLY,
NO REDISTILLED VARIETIES.

FOR SAMPLES AND QUOTATIONS, APPLY—

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MANOR FARM,

WOODMANSTERNE (SURREY).

Wholesale Buyers and Shippers only supplied and their inspection respectfully invited.

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11 Pollock Street, CALCUTTA.

BEST SOURCE FOR

SIAM BENZOIN GENTIAN CASTOREUM
PATCHOULY VANILLA GUM ARABIC
SENNA LEAVES & PODS MEDICAL PLANTS & ROOTS
ESSENTIAL OILS: Ceranium, Bay, Citronella, Lemongrass and Camphor.

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CARAGHEEN (IRISH) MOSS

FRANCE.—We are prepared to take charge of a few important General Agencies. Spacious Warehouses.

INDIA, BURMAH, STRAITS and SIAM.—Since 1901 yearly covered by our Mr. Emile Schmidt and our Calcutta Staff. We can represent some more really A1 concerns on commission only, and solicit correspondence.

ON THE P.A.T.A. LIST.

The First Marking Ink Enrolled.

Yields 40 Per Cent. Minimum Profit.

ORDER

JOHN BOND'S "CRYSTAL PALACE" MARKING INK

Supplied to the Royal Households, and awarded 45 Gold Medals, &c.

Heat or Non-Heat.	Protected Minimum Price.	Minimum Price to the Retail.	Minimum Price to the Wholesale.
6d. size	4d. per bot.	2/9 doz. nett	30/- gross nett
1s. "	8d. "	5 6 "	60/- "

100 Years' WORLD WIDE Reputation

N.B.—When ordering through the Wholesale, please specify the "**CRYSTAL PALACE INK,**" and if the Original Preparation Requiring Heat, the Non-Heat kind, or Assorted is required; and in order that no customer may suffer loss through old or soiled stock, this can always be exchanged for fresh, either direct or through the Wholesale

MANUFACTURED BY
ALFRED BOND HICKISSON, Sole Proprietor,
75 Southgate Road, LONDON, N.

Depot for HENRY BOND'S ORIGINAL INDELIBLE "OAK TREE" HEAT OR NON-HEAT MARKING INK.

Judson's Wax Polish

For Linoleum, Furniture, Stained Floor Edging, etc.

Sells Well! Pays to Sell!!

3d., 6d., and 1/- Tins.

Write for Samples and Prices.

DANIEL JUDSON & SON,
Mack's Road, BERMONDSEY, S.E.

VISCOSE BOTTLE CAPS

For CAPPING EVERYTHING
whether corked, stoppered or sprinklered.
BETTER APPEARANCE, MORE EFFICIENT AND EASIER TO APPLY THAN ANY OTHER CAPPING.
Strong, perfect fitting, SELF-FIXING, air-tight and spirit-tight, &c. &c.

VISCOSE DEVELOPMENT CO., Ltd., 3 New Court, Carey Street, London, W.C.

SUPPORT HOME INDUSTRIES.

Estd. 1777.

Incd. 1900.

BUY KENT'S BRUSHES.

Winter Issue, 1909, pp. 86, 87.
Diary, 1909, pp. 46, 47.

CARRIAGE FREE

CENT. PER CENT. PROFIT

Special CASH OFFER for WINDOW DISPLAY.

As a trial order we are prepared to send—

1 doz. 6d. size and 1 doz. 1/- size

FOR

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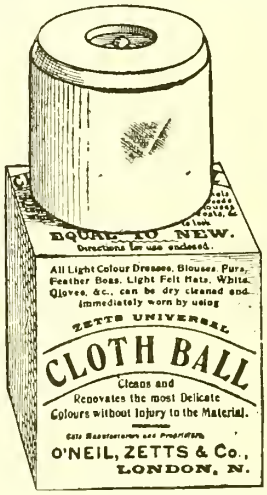
CARRIAGE FREE.



As a trial order we are prepared to send—

1 doz. 6d. size and 1 doz. 1/- size

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CARRIAGE FREE.

We print your name and address on three times the above quantity.

O'NEIL ZETTS & CO.
182 Stroud Green Road, N.

CARRIAGE FREE

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TO

CHEMISTS AND DRUGGISTS.

Messrs. A. ROWLAND & SONS, proprietors of Rowland's Macassar Oil, for strengthening the growth of the Hair; Kalydor, for beautifying the Complexion; and Odonto, for whitening the teeth and preventing their decay, have just had designed for them a new and beautifully coloured

SHOW CARD

and will be glad to send one free of cost to any Chemist or Druggist who will send his name and address; also counter bills with name and address.

ROWLANDS' TOILET ARTICLES have been known for the last 120 years as the purest and best preparations for the Hair, Skin, and Teeth that have ever been made. They are largely advertised all over the world, consequently there is always a regular demand for them, and they should therefore be kept in stock by all stores, chemists, and druggists.

A. ROWLAND & SONS, 67 HATTON GARDEN, LONDON.

A new Invention of Great Utility,

"LUTON" HAT DYES

No Gloss. No Polish. Dry at once. Resist rain.

Facsimile of Showcard,

Original 12½ in. × 10 in.

In bottles, 6d. each, in separate neat cartons, with suitable brush

These Dyes are a distinct invention, dying the straw without an objectionable varnished appearance, and producing the effect of new goods.

Write for terms and patterns:

WHITAKER & CO.

Colour Works, KENDAL, ENG.

SPECIALISTS IN VARNISHES, STAINS, DYES, &c. *ESTD. 1878*

Colonial Testimonial—"Your 'Lutons' have really come up to the mark."—Geo. H. Langton, Port of Spain, Trinidad.

ALL PRICES SUBJECT TO 5 per cent. DISCOUNT FOR CASH.

ALL ORDERS, CASES FREE.

All orders for London and Suburbs, within 12 miles, carriage free.

Orders of £2 and upwards, and single Bags of Sea Salt (1 cwt., ½ cwt., or ¼ cwt.) carriage free to any part of the Kingdom.

Net profits to the Retailer range up to 100 per cent.

TIDMAN'S SEA SALT.			Retail at	
Penny packets, 1 doz. in box	8 per gross		1d. each or	1 - a box.
Twopenny ,, ,,	15 6	,,	2d. ,,	2 ,,
Penny linen bags ,,	7 -	,,	1d. ,,	1 - ,,
Twopenny ,, ,,	14	,,	2d. ,,	2 - ,,
1½ lb. Wooden boxes,	2 8 per doz.		4d. each.	
3 lb. ,,	5 3	,,	6d. ,,	
7 lb. ,,	10 3	,,	1 - to 1 2 each.	
14 lb. ,,	18 9	,,	2 to 2 6 ,,	
1 cwt. Bags (carriage paid)	8 6 each		10 -	Despatched direct
½ cwt. ,, ,,	4 8	,,	5 6	to consumer's ad-
¼ cwt. ,, ,,	2 7	,,	3 -	dress if required.

TIDMAN'S SEA SOAP for use with Tidman's Sea Salt, or any hard water, in Tablets. 1 dozen in box, 30 per gross. 4d. to 6d. each.

TIDMAN'S PINNACLE SOAP STANDS, saving 50 per cent. of Soap and keeping it dry and hard, three shapes, round, oval, or square, 8/6 per dozen. 1 - each.

TIDMAN'S TABLE SALT, cheapest and best in the market, the King of Table Salts, finest, whitest and never cakes.

Small tins 3 doz. in box 8 6 per gross	1d. to 1½d.	each.
,, about 1½ lb. ½ doz. in box, 3 - per doz.	4d. to 6d.	,,
Large tins, about 3½ lb., 4 6 per doz.	8d. to 1 -	,,
Small packets, 1 doz. in box, 4 3 per gross	½d. to 1d.	,,
Twopenny packets, about 1½ lbs. ½ doz. in box, 9 - per gross	1d. to 2d.	,,
Tins for hotels and large consumers, about 14 lbs., 1 6 each	2 - to 2 6	,,

TIDMAN & SON Ltd., BUSHELL ST., LONDON, E.

1909 CROP **FINEST** 1909 CROP

BERMUDA ARROWROOT

REGISTERED TRADE MARK No. 66,747

A limited quantity of this well-known and standard brand can now be supplied by our Sole Agents,

EVANS, GRAY & HOOD

5 GREAT TOWER STREET, E.C.

ROBERT TUCKER & CO., 12 Coleman St., London, E.C.

The Gold Medal Wine Tonic

London. 1908.

WINCARNIS

DO YOU Stock it? It means quick sales and a steady profit if **YOU DO**

SEND FOR LIST.

All Registered Chemists can sell Wincarnis with Quinine without a licence. Why not you?

Medical men in your district order it often, and there is a large public demand. [16]

By Special Appointment to the King & Queen of Spain.

COLEMAN & CO., LTD., 21 Wincarnis Works, NORWICH.

BELOW ARE JUST A FEW OF HORNER'S

SPECIALITIES, for which they are renowned all over the world . .

Vittoria Liquorice Juice.

High-class Trimmed and Powdered Rhubarb.

Genuine Otto of Roses.

Absolutely Pure English-distilled Sandalwood Oil.

Best Selected Druggists' Opium.

Cut Sarsaparilla of all kinds.

Powdered Ipecac. and Jalap.

A large stock of all Gums, Roots, Barks, &c., in ordinary form and powder, always kept.

HORNER & SONS,

24 GEORGE STREET, TOWER HILL, E.C.
(Late of Mitre Square, Aldgate)
And 20 BUCKLERSBURY.

LOFTHOUSE & SALTMER, *Wholesale and Export Drug Merchants, Manufacturing Chemists,* HULL,

Offer the Trade the following valuable P.A.T.A. Protected lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the Country.

	Protected Retail Price.	Dozen.
LOSALL'S SALT (well advertised), tins ...	6d. ...	3/6 net.
" " " " ...	1/- ...	7/- "
" " " bottles in cartons	1/6 ...	10/6 "
LOSALL'S MILK FOOD, oblong tins 1/- size. Ideal Food for children and adults	8½d. ...	5/6 "
FINEST HYGIENIC FIRST MILK FOOD "Crown Brand," specially adapted for infants from birth to 3 or 4 months, tins 1/3	1/- ...	7/6 "
PREPARED BARLEY ("Crown Brand.") Usual 1/- size, lever lid tins. A good selling line	— ...	4/- net.
MALTED FOOD. Usual 1/- size, lever lid tins. Buyer's name and address printed free on 3 dozens. Special design label, name and address, on gross orders if desired	— ...	4/6 "
LOSALL'S FOOT-ROT OINTMENT, ... enamelled tins	1/- ...	7/6 "

Chemists taking up the above really valuable, large profit-yielding lines, will find them an important adjunct to their business,

London Agents: F. NEWBERY & SONS.

If you want close up-to-date Quotations for superior and approved Counter Specialities, and for Pure Drugs, Chemicals or Pharmaceutical Preparations, don't fail to write to

LOFTHOUSE & SALTMER, *Wholesale Druggists,* HULL.

Does Not This Merit Your Preference?

YOUR CUSTOMERS

get a yield of 50 pints of soured milk that is uniformly smooth and creamy

AND YOU—

always a large protected profit

from Lactone Tablets at the P.A.T.A. retail price of 2/6.

PARKE, DAVIS & CO., 50 Beak St., Regent St., LONDON, W.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.
FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom.
BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

Express Developing Co.

OUR ANNOUNCEMENTS WILL APPEAR IN THE FIRST ISSUE OF EVERY MONTH.

(REGISTERED.) Telephone Number: LONDON WALL 4793.

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Their requirements are our special study.

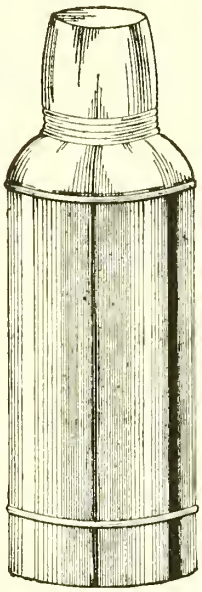
Roll Films developed and despatched day after receipt.

CARBONS. PRINTING IN ALL PROCESSES. POSTCARDS.

WRITE FOR PRICE LIST AND PARTICULARS OF OUR PROFITABLE SIDE LINES.

EXPRESS DEVELOPING CO., 86 High Street, Whitechapel, E.C.

THE THERMOS FLASK—for Lactonised Milk.



THERMOS Flask not only keeps liquids steaming hot for 24 hours and cold liquids icy cold for days without fire or chemicals, but by testing and experiments by able Medical Men it has been proved to be the **easiest, simplest,** and **most effective** mode of producing Lactonised Milk. The *modus operandi* is as follows :—

Heat your milk to a temperature from 105° to 110°—Pour into **THERMOS Flask** with one tablet of Lactic Acid and a spoonful of sugar. Allow the milk to stand from 10 to 12 or more hours, and perfect Lactonised Milk is the result.

This means MINIMUM trouble-MAXIMUM results

MEDICAL MEN ARE LARGELY RECOMMENDING THE FLASKS TO PATIENTS.

Prices from 21/- each PINTS and 31/6 each QUARTS.

They can be obtained of all CHEMISTS and DRUGGISTS. JEWELLERS, SILVERSMITHS and STORES.

Wholesale only : A. E. GUTMANN & CO., 8 Long Lane, London, E.C.

WALKER, TROKE & CO.
WHOLESALE DRUGGISTS,
(late 65) Bath St., City Road,
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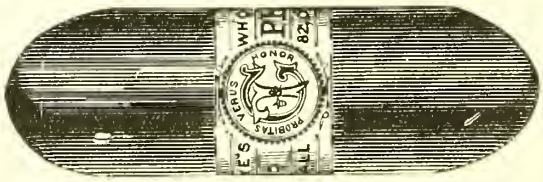
Telephone : "3593 CENTRAL."

CELATINE-COATED DOG & FOWL PILLS. *Samples Free.*



SOLE MAKERS OF
GABRIEL & TROKE'S
CELATINE CAPSULED
HORSE BALLS
Alterative, Condition, Cordial, Cough, Diuretic, Fever, Physic, Worm, Quinine, Tonic Balls (Registered 81,291).

Sole Makers of **'SANOGEN VAPORISER'** (Reg. No. 21,772), for **WHOOPING COUGH, ASTHMA, &c.** Retail Price **2/6** (subj. to dis.)

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CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.	Aqua Menth. Virid. Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor Aurant.	8/6 "	" Pimentæ "	4/- "
" Anisi "	4/- "	" " Sambuci Conc.	8/6 "	" Pulegii "	4/- "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "	" Rosemarini "	4/- "
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" Cinnam. Ver. Conc.	6/- "	" " Ang. Conc.	6/- "	" " Virgin "	10/6 "

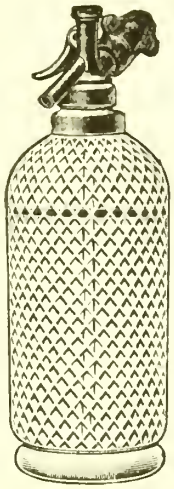
The above may be had in ¼-lb., ½-lb., or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine.

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P. 1898).

Samples of any of the above sent free on application from

R. ROBINSON & CO., LTD., Distillers and Brewers of British Wines. **CHURCH ST., PENDLETON, MANCHESTER.**
Telephone; 138 Pendleton.



Save on Your Mineral Waters

Thousands of people now make their own Mineral Waters, and by so doing save money and get better Mineral Waters. They use the **'Prana'**

Sparklet Syphon

The wonderful Home Mineral Water Maker which makes Mineral Waters at **1/4 a Dozen Syphons.** Sold by all Chemists and Stores. **Price 2/6,** double sized 4/-

Order one to-day or fill in and post this Coupon to the Sole Manufacturers :

COUPON Please send me leaflet and full particulars of the 'Prana' Sparklet Syphon.

Name .....

Address .....

Cut out and post to—

AERATORS, LTD. (Dept. C & D), Upper Edmonton, London, N.

¶ The above is a reproduction of one of the forceful, 'pulling' advertisements of Sparklets which are now appearing regularly in all the principal dailies throughout the United Kingdom.

¶ Look out for one in your neighbourhood. It is sure to bring customers to your establishment.

¶ We refer all direct enquiries to the Trade.

AERATORS, LTD., 'Prana' Sparklet Works, Upper Edmonton, N.

THE NATURAL MINERAL WATERS OF

VICHY

(STATE SPRINGS)

CÉLESTINS For Diseases of the Kidneys, Gravel, Gout, Rheumatism, Diabetes, &c.

GRANDE-GRILLE For Diseases of the Liver and Biliary Organs, &c.

HOPITAL For Stomach Complaints, Indigestion, &c.

VICHY-ÉTAT PASTILLES Two or three Pastilles after each meal facilitate digestion.

VICHY-ÉTAT COMPRIMÉS For instantaneously producing an effervescing alkaline water.

Price Lists, Show Cards, Dummy Bottles, Pamphlets, &c.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck lable with the word "VICHY-ÉTAT" and the name of the SOLE AGENTS:—

INGRAM & ROYLE, LTD., 26 UPPER THAMES STREET, E.C. And at LIVERPOOL and BRISTOL.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia (Wholesale only.)

London Agent: T. W. CASHMAN, 16 Mark Lane, E.C. Telephone No.: 8067 LONDON WALL.

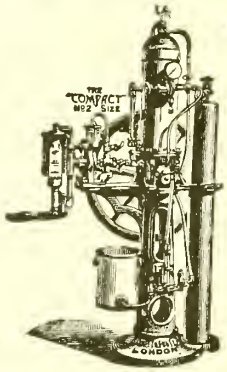
SODAWATER MACHINERY

THE "COMPACT" MACHINES
are specially designed for
CHEMISTS, GROCERS, RESTAURATEURS,
and everyone to whom space is an object, and can be used for filling Syphons, Codd's Bottles, or Cork Bottles.

OCCUPY LITTLE SPACE!
ARE READY FOR USE IMMEDIATELY!
REQUIRE NO FIXING!

Produce Soda Water, Lemonade, &c., of the highest class and greatest purity.

Write for Catalogue.



A COMPLETE APPARATUS—CAPABLE OF PRODUCING OVER 300 DOZEN LARGE BOTTLES OF AERATED WATER PER DAY —from £20.

Bottles, Boxes, Essences, and all Requisites for the Trade at Lowest Prices.

BARNETT & FOSTER, Niagara Works, 26T Eagle Wharf Road, N.

Proprietors of Galloway, Bros., Bolton.

1909 Budget has not affected

Yardley's Shaving Stick

'THE STICK IN THE GLASS CASE.'
P.A.T.A. Line.

June SPECIAL OFFER July

FOURTEEN TO THE DOZEN FOR TWO MONTHS ONLY (For 3 doz. lots and over.)

YOUR

Yield	...	42/-
Outlay	...	18/11
Profit	...	23/1

From many Testimonials received we are convinced that the public appreciate that our Shaving Stick means an easy Shave and a comfortable chin, and is the Shaving Soap which Beats the Foreign.

YARDLEY & CO., Ltd., STRATFORD, E. Specialists in Toilet Soaps. EST. 1770.

AS SUPPLIED TO H.M. THE KING.

THE "HYGIENE" LAMP

(Patented at Home and Abroad.)

DISINFECTING OR PERFUMING

MOST ECONOMICAL IN USE.

For purifying or perfuming the air in Public Halls, Private and Business Houses, Sick Rooms, &c., and for destroying Microbes, Germs, Insects and Parasites by means of Formaldehyde Vapour.

Favourably mentioned by the "Lancet" and the "British Medical Journal," awarded the Certificate of the Incorporated Institute of Hygieue, and recommended by leading London doctors.

RETAIL PRICES.

Hygiene Lamps	5/6 each.	63/- dozen
,, Concentrated Antiseptic Fluid ...	1/- per bottle	
,, ,, ,, Perfumed Fluid ...	1/6 ,,	

Trade discount, 33⅓%. Orders for £1 and upwards, carriage paid in U.K. 5% allowed for cash or 2½% monthly.

Obtainable from all Wholesale Houses.

Pamphlets and showcards post free on application from Manufacturers

ROBERTS, CORNFORD & CO.
8a CITY ROAD, FINSBURY SQUARE, LONDON, E.C.

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A NEW DEPARTURE.

CC CONCENTRATED

PERFUMES

(WITHOUT SPIRIT).

When purchasing, mention C.C., with the name of the perfume.

VIOTTO, C.C.
HAVANITA, C.C.
ROSE, C.C.
LILY of the VALLEY, C.C.

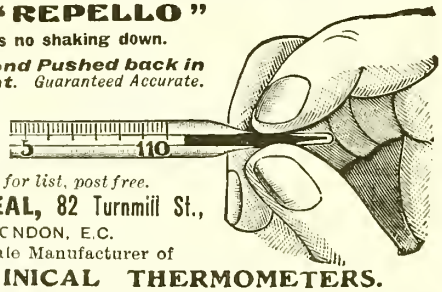
Actual Size of Vial. 30/- per doz. nett. 3/9 per vial retail.

A tiny vial, yet containing more essence than an ordinary bottle of perfume at a higher price.
A ready selling line backed by advertising and giving entire satisfaction to the purchaser. Entered on the P.A.T.A.
A STRONG SELLING ARGUMENT.
Courvoisier's C.C. Perfumes contain no spirit, therefore they, and incidentally the purchaser, pay no spirit duty.

Of your Wholesaler, or direct from

H. BRONNLEY & CO., Ltd.
Acton Vale, LONDON, W.

ZEAL'S PATENT
CLINICAL THERMOMETER
The "REPELLO"
Requires no shaking down.
A 30-Second Pushed back in an instant. *Guaranteed Accurate.*
Good Selling Lines for Chemists.



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Wholesale Manufacturer of
CLINICAL THERMOMETERS.
A SELECTION OF 50 KINDS.
Established 1888 Telephone No. 12438 Central.

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Can now get 25% to 40% off
"LILYWHITE"
Papers and Cards.
THE COMING STOCK LINE.
ASK FOR DETAILS. Tels. 1041 and 1041a.
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LILYWHITE WORKS, HALIFAX, YORKS.

LISTERINE
The Popular American Antiseptic.

A non-toxic antiseptic of known and definite power; prepared in a form convenient for immediate use; of ready dilution, sightly, pleasant, and sufficiently powerful for all purposes of asepsis—these are advantages which Listerine embodies.

The success of Listerine is based upon merit, and the best advertisement of Listerine is—Listerine.

LISTERINE DERMATIC SOAP

Designed to meet the most exacting requirements of a saponaceous detergent for use in the antiseptic treatment of diseases of the skin. No animal fats, and only the best vegetable oils enter into its composition, and of these it contains a surplus, "superfatted." It is a bland, unirritating and remarkably efficient soap.

LISTERINE TOOTH POWDER

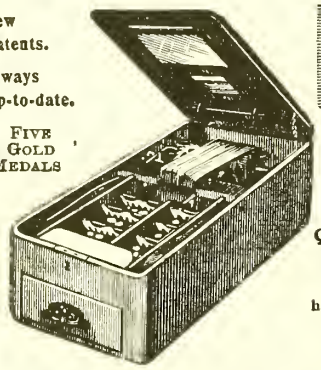
This powder is not intended to supplant Listerine in the daily toilet of the teeth, but is offered in response to the demand for a frictionary dentifrice to be used in conjunction with this well-known and time-tried antiseptic.

Listerine Tooth Powder, like Listerine, will advertise itself by its intrinsic merit.

BRITISH TRADE SUPPLIED BY
S. MAW, SON & SONS, 7 to 12 Aldersgate St., London, E.C.
General Agents for Great Britain.

FOR DESCRIPTIVE LITERATURE, ADDRESS—
LAMBERT PHARMACAL CO., St. Louis, U.S.A.

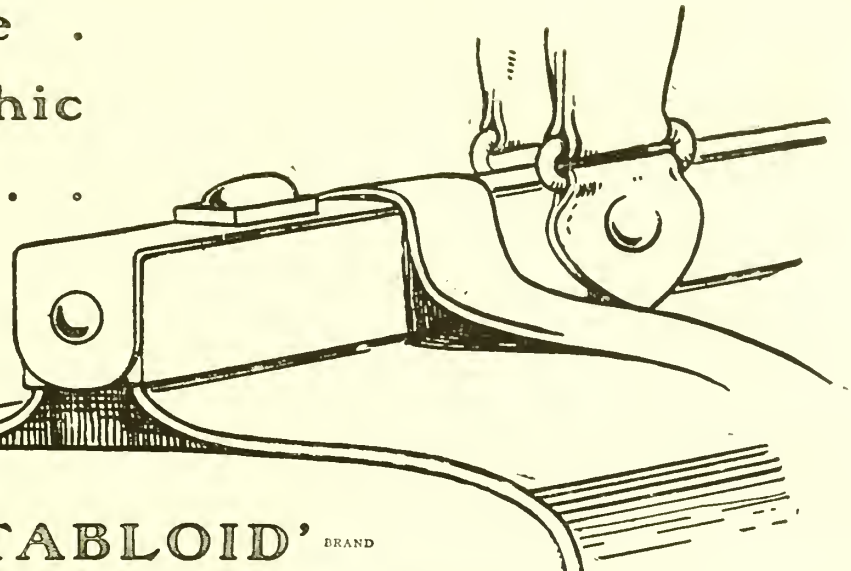
New Patents.
Always Up-to-date.
FIVE GOLD MEDALS



O'BRIEN'S Self-closing
THE STANDARD CHECK TILLS.
CHECK TILLS
Quickest, Safest, Best and Cheapest. Made in Solid Mahogany throughout.
ALL THE LATEST AND GREATEST IMPROVEMENTS
TESTIMONIAL, 25th Feb., 1908.
"I should like to express my entire satisfaction with the way in which the Till has served me. I have never had the least trouble with it, and practically it is as good as ever." (Signed) E. W. ROBERTS. (Till six years in use.)
PRICES FROM TWO-AND-A-HALF GUINEAS.
London Showrooms: 281 & 282 High Holborn.
Send for Full Price List to THOMAS O'BRIEN, Slater Street, Bold Street, LIVERPOOL.

"SOLAZZI" LIQUORICE JUICE
THE CHEMISTS' BRAND.
'The Lancet' says: 'Of Standard Purity.'
Recommended also by '*The British Medical Journal*,' '*Health*,' '*The Chemist and Druggist*,' '*Food and Sanitation*.'
ASK FOR SHOWCARDS AND HANDBILLS. To be obtained of all Wholesale Houses.

Seasonable . Photographic Stock . . .



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PHOTOGRAPHIC OUTFIT

No. 905 *(Registered)*

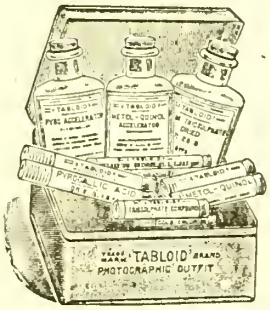
A neat metal casket containing a complete chemical outfit for developing, etc.

Easily carried in pocket, cycle-case or kit-bag.

Enables the tourist to test exposures en route, and thus make sure of securing good negatives of scenes which may never be revisited.

Ideal for home use, especially where dark-room space is limited or temporary.

Awarded
GRAND PRIZE
Franco-British Exhibition, 1908
(Photographic Section)



Measurements: 4 × 4 × 2½ in.

Contains all the chemicals necessary for developing and fixing plates, films, bromide or gaslight prints and lantern slides, and for toning and fixing P.O.P.

Issued in Rex Red, Royal Blue, Imperial Green or Bright Scarlet Enamelled Metal, or in Black Japanned Metal.

Retail

5/- EACH

BURROUGHS WELLCOME & CO., LONDON (ENG.)

Branches: NEW YORK MONTREAL SYDNEY CAPE TOWN SHANGHAI

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The British Drug Houses, Ltd.

MANUFACTURERS · OF · OFFICIAL · CHEMICALS

Specially prepared to meet the highest requirements of Modern Pharmacy.

Pharmacists have a perfectly reasonable and well-founded predilection in favour of chemicals in crystals rather than in powder, on account of the greater chemical purity thus often obtained. At the same time, a powder is much more convenient for weighing and dissolving, though some of this convenience disappears if the powder have a tendency to "cake."

Potassium Citrate
Sodium Citrate
Lithium Citrate
(supplied in the form of neutral non-deliquescent crystalline powders) and
Sodium Sulphate
Sodium Phosphate

(supplied in the form of small, so-called "feathery" crystals) combine the best advantage of both forms. They combine the greatest convenience in dispensing with the very highest degree of chemical purity.

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DAVY HILL & HODGKINSONS, LTD., Southwark, London, S.E.
HEARON, SQUIRE & FRANCIS, LTD., Southwark St., London, S.E.

THE CHEMIST AND DRUGGIST

A Weekly Journal of the Chemical and Drug Trades,
and of
British Pharmacists throughout the Empire,
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6*d.*; Summer or Winter Number, 1*s.* *Diary*, 8*s.* 6*d.* Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12·60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizkalender einmal im Jahre, 10 Mark, postfrei.

Precio de suscricion annual: el periodico una vez por semana, y el agenda una vez por anno, 12·60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.
Telegrams: "Chemicus London." Telephone 852 Bank.
Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST.

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THE importance of being in earnest applies as much to business if not more than to any other concerns in life. The business-man must be constantly watching for new outlets for his goods, new buyers, new customers—*tres in uno.* This is eminently the case in the drug-trade and pharmacy—a business which those who follow it now fully realise must be conducted on the principle of buying well and selling well. THE CHEMIST AND DRUGGIST has helped in demonstrating this. It has been a trade-journal all the time—now half a century—and it has proved by the stern test of length of days that it does its work well for advertisers; it puts them into contact with the best buyers at home and abroad. All business-houses who want to keep up their returns by pleasing old customers and getting new ones are invited to write to the Publisher of the *C. & D.*, 42 Cannon Street, London, E.C., who can give them advice on the matter. He now has in preparation the Summer Issue and Jubilee Number for publication on July 31, and can take circulars and price-lists for insertion in it as Insets.

On the Qui Vive.

For Better Business.

Summary.

The subjoined paragraphs give the gist of the more important matters in this issue, with the object of showing at a glance what has happened during the week. See also "Contents" in the first column.

THE JAPANESE AUTHORITIES have semi-officially replied to the *C. & D.* observations regarding the unsatisfactory treatment of chemical imports (p. 28).

WORDS beginning with "orl" in place of "all" are not as a rule good for registration as trade-marks. We give a High Court judgment on the subject (p. 7).

WE print a first instalment of Dr. W. H. Martindale's International Congress paper on organic arsenic compounds. It reviews existing knowledge, and adds to it from personal research (p. 19).

SOME interesting particulars in regard to the production of bromine and bromides in the United States are given on p. 32, which show that trade conditions (as regards prices) were notably worse than in 1906 or 1907.

BENZINE-LICENCES will not be required of retail chemists. The Board of Customs and Excise have issued a circular to their officers about the matter (p. 19), and an amendment covering the point is to be moved when the proper clause of the Finance Bill comes along (p. 33).

THE THIRD of the series of articles on Newcastle-on-Tyne, which we are printing in anticipation of the B.P.C. meeting there this month, deals with the pharmacists and pharmacies of the city, including the manufacturing, wholesale, and retail. It begins on p. 10.

DR. THOMAS E. THORPE, C.B., F.R.S., Principal of the Government Laboratories, is a King's Birthday knight (p. 2). Our first editorial article deals with the necessity for complete reorganisation of the chemical staffs in the Customs and Excise, a task to which the Government is now giving attention, Sir Thomas Thorpe being a member of the Committee of Inquiry (p. 16).

MR. HERBERT SAMUEL, M.P., has obtained Cabinet rank as Chancellor of the Duchy of Lancaster. Mr. Idris is not seeking re-election. A committee of M.P.s is approaching the Chancellor of the Exchequer on behalf of chemists with licences for the sale of medicated wines. Mr. Birrell is to receive next week a deputation *re* pharmaceutical companies' apprentices in Ireland. These are a few of the interesting items in our Parliamentary report on p. 14.

THE half-year closes without any evidence of improved business on the markets, though there is a steady undercurrent of business in certain quarters. Among articles which have appreciated we include ergot, Cochin and African ginger, pepper, pimento, valerian, and ammonia sulphate. Citric acid, tartaric acid, cream of tartar, and copper sulphate are in buyers' favour, while chrysarobin and opium are offered at lower rates. An auction of first-hand drugs is reported (p. 29).

SIR THOMAS BRAMSDON asked the Chancellor of the Exchequer on Thursday afternoon whether any relief could be given to hospitals, which would be severely taxed by the additional spirit-duty; but the reply was that the Chancellor could add nothing to the reply already given to a similar question. Mr. Lane-Fox also asked the Chancellor if he could state the basis upon which the undeveloped supply of mineral waters would be estimated for the duty on undeveloped minerals under the Finance Bill. The reply was a reference to an answer previously given regarding natural gas. Some amusement was caused in the course of supplementary questions by the remark of the Chancellor that there is a good deal of natural gas about which has no market value. If any value could be discovered it would be taxed in the ordinary way.

THE AGRICULTURAL POISON LICENCES matter is ripening to a fight. A deputation of Aberdeenshire chemists interviewed a committee of the County Council last week, when Mr. J. F. Tocher, on behalf of the chemists, gave the committee a lucid explanation of the law and its objects (p. 22). Mr. Lord Gifford is to ask the Pharmaceutical Council next week to get the Government to issue further instructions to local authorities (p. 13). Correspondents express their feeling of betrayal, one asking all chemists to send to the Editor of the *C. & D.* the names and addresses of persons in their districts to whom licences have been granted. We would be glad to receive and tabulate such information for the purpose outlined by our correspondent, and ask subscribers to refer to his letter on p. 33 for the details required. This is one of those things which chemists should not think "the other man" will do, but should do it themselves.

B

English and Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

The Southampton public analyst reports that one sample of camphorated oil examined during May was genuine.

Jeyes' Sanitary Compounds Co., Ltd., Cannon Street, E.C., have withdrawn their exhibits at the "White City."

Messrs. E. Cook & Co., Ltd., Bow, secured the second prize for decorated carts at the East Ham Carnival held on Saturday, June 26.

The off-licence held by Mr. M. H. Neale, chemist and druggist, Arundel, has been transferred to Mr. Wm. Bellyard Allison, chemist and druggist.

Wolff Mayes, a mineral-water manufacturer, of Katherine Road, East Ham, was on June 25 fined 2*l*., and 7*s*. costs, for having an unfenced bottling-machine at work.

The plans for a chemical-factory to be erected in Blackhorse Lane, Walthamstow, by Messrs. Baird & Tatlock, scientific-instrument makers, of 14 Cross Street, Hatton Garden, London, E.C., have been passed by the local Urban District Council.

At the Lambeth Police Court on June 26, Charles Reid (32), dealer, was committed for trial at the Central Criminal Court on a charge of stealing, among other things, nine pairs of spectacles, value 30*s*., the property of Mr. Harold A. Wigginton, chemist and druggist, Kennington Cross, London, S.E.

At St. Helens on June 24, John Molyneux and George Roy were remanded on a charge of obtaining 1*s*. 9*d*. by false pretences from Mrs. Edward Triwlet, by selling "Hospital Beef and Malt Wine," which contained neither malt nor meat extract. The purchaser was asked not to open the bottle for an hour.

Mr. F. W. Crossley-Holland, F.C.S., pharmacist, brought an action against Lady Hope at the Marylebone County Court, on June 25, for the negligence of her servants at the Connaught Club in leaving his room door unlocked, with the result that a thief stole some articles belonging to him. Mr. Crossley-Holland recovered 20*l*. damages.

At the meeting of the licensed trade and general users of National cash registers held at the Holborn Restaurant on June 24, it was unanimously resolved to form a society under the title of "The London National Cash Register Users' Protection Association." Mr. Francis Robinson was appointed Secretary, and an Advisory Committee was elected.

A meeting of the Fellows of the Royal Botanic Society of London was held on June 25, when the auditors' report was submitted, showing the liabilities of the Society to be 35,000*l*., inclusive of debentures (25,000*l*.). Unless 4,000*l*. is raised before December 31 the Society must go into liquidation. The members discussed the matter, but no resolution was come to.

The heroic action of Mr. Robert Green, the works-manager of Messrs. Allen, Harding & Co., chemical manufacturers, Canada Wharf, Deptford, in rescuing a boy, aged five, who had fallen into the canal, is to be reported to the Royal Humane Society. Mr. Green had to make two attempts before he found the child, who is now quite recovered from his immersion.

The quarterly conference of the heads of departments and commercial travellers of Messrs. Sangers took place at the firm's offices at Euston Road, London, N.W., on June 26. In the evening all dined together at the Oxford Hotel, Oxford Street, W., Mr. Sidney H. Carr in the chair. After dinner songs were given by Messrs. H. F. Smith, T. H. Carr, S. Coke, A. H. Milner, Laws, and S. Jamieson. Mr. J. D. Jamieson played the piano.

A serious fire broke out on the premises of Messrs. Wilkinson, Haywood & Clark, oil merchants and paint manufacturers, Storer's Wharf, London, E., on June 26. The four-storey building contained enormous quantities of inflammable material, but the fire-brigade were successful in preventing the flames reaching an annexe containing about 300 tons of oil. The main building was destroyed, damage estimated at 25,000*l*. to 30,000*l*. being done.

At a meeting of the Cornwall County Farmers' Union on June 23 a reference was made to a case in which a farmer was summoned in the Middlesex County Court to pay 18*s*., with 3*s*. fees, for 3 gals. of cod-liver oil. It was stated that the representative of a foreign firm offered the oil on the condition that if it did not prove satisfactory the purchaser need not pay for it. A buyer had stated the oil was "no good," but the representative guaranteed it as pure cod-liver oil. It was finally suggested that interested members should have the oil analysed.

Birthday Honours.

A large number of appointments were made by the King on June 25 on the occasion of the celebration of his Majesty's birthday. Among those most interesting to pharmacists are the following: Sir Dyce Duckworth, M.D., receives a baronetcy. He was knighted in 1886. Mr. Henry Morris, President of the Royal College of Surgeons, receives a similar honour. He has written works on the joints, surgical diseases of the kidney and ureter, and diseases of the genital organs and the abdomen. Among those who received knighthood are Mr. Francis Galton, F.R.S., best known for his work on anthropology and eugenics; Professor Joseph Larmor, F.R.S., the mathematician; Lieutenant-Colonel Leishman, who has specialised in bacteriology; and Dr. T. E. Thorpe, C.B., F.R.S. The last-named receives his knighthood at an interesting period of his career, when, as announced in THE CHEMIST AND DRUGGIST, he is leaving his post as Principal of the Government Laboratories and receiving the appointment of Dean of the Imperial College of Technology. Dr. Thorpe is an honorary member of the Pharmaceutical Society of Great Britain, having been elected in 1896. Mr. E. E. Nott Bower, Deputy-Chairman of the Inland Revenue, is made a Companion of the Bath.

Birmingham Notes.

Drysaltery in this city is taking up a new side-line. A Gooch Street window displays the legend "Glass cut to any size at 2½*d*. per sq. foot."

Mr. F. Smith, pharmacist, Soho Road, in a letter in the local "Mail" stated that the general impression that property lost in Birmingham trams can be recovered on paying 1*s*. is erroneous. An *ad valorem* fee is required on restoration.

Manchester Notes.

Several of the chemists along the Royal route have posted up notices of space to let to view the Royal procession on July 6.

No fewer than 200 Manchester doctors braved the wretched weather on June 24 to compete in the annual golf competition for the trophies offered by the Manchester and District Medical Golfers' Association.

Professor Grafton Elliot Smith, the new Professor of Anatomy at Manchester University, is the youngest man yet chosen for so important a post. During the last eight years he has been Professor of Anatomy at Cairo.

All round the Manchester district it is noticed that Messrs. Boots are making very strenuous efforts to capture the syphon trade. They are delivering free to customers' houses at 2*s*. 6*d*. per dozen. During the Manchester conference the Mayor of Salford gave a garden party, and Boots' waters were served at it; since then they have been pushing the trade here.

Sheffield Notes.

A representative meeting was held at the Town Hall on June 25 to make the preliminary arrangements for welcoming the British Association, which is to hold its annual meetings here next year for the first time for thirty-one years. A strong committee was appointed, which included Professor Palmer Wynne, D.Sc. One of the University professors urged the necessity for appointing a third hon. secretary in addition to the Town Clerk and the Registrar of the University, and he moved the appointment of Professor Wynne, but that gentleman declined to stand, and the proposal fell through.

At the monthly meeting of the local branch of the National Association of Medical Herbalists on June 24, Mr. H. R. G. Skelton presented a report of the year's work. The intended botanical excursion on the same date was postponed owing to the inclement weather. No meeting

will be held next month on account of the Association Conference, which is to be held at Leicester in July.

A committee of the Royal Society and of the Sheffield University have now determined the form of the Sorby Research Fellowship established by the legacy of the late Dr. H. C. Sorby, F.R.S. The object of the fellowship is to obtain advances in natural knowledge by enabling men of proved ability to devote themselves to research. The appointment will be for a period of five years at a stipend of 500*l.* per annum.

Alleged Personation.

At Stockton-on-Tees on June 30, Adam Melrose Porteous was charged with obtaining by false pretences a sum of money and food from the Visiting Committee of the Durham County Asylum. Mr. Richard Luck (barrister), who prosecuted, called evidence to show that accused had impersonated Mr. William James Porteous, a fully qualified medical practitioner, and by that means had obtained a post as *locum tenens* at the Sedgefield Asylum. The witnesses included Mr. Fred Bullock, Secretary and Registrar of the Royal College of Veterinary Surgeons, who said that the accused is a member of the College, and Mr. A. J. Cockerton, Clerk of the General Medical Council, who stated that he had examined the Medical Register from 1858, and had found no person in the name of Adam Melrose Porteous. The accused reserved his defence and was committed for trial.

Spectacle-makers' Examination.

In regard to the forthcoming examination of the Spectacle-makers' Company we have received the following note about the additional practical test which is to be given :

It is desirable that practical opticians should not be wholly dependent upon apparatus such as trial lenses, lens-measurers, test types and prism charts supplied by manufacturers, but that they should be familiar with the principles and practice of simple methods of testing lenses, etc., in case of need, when no such apparatus is available, and of checking such apparatus if defective or deranged. A mere book knowledge of these tests is insufficient, and although there is no desire to introduce fresh difficulties into the examination, the examiners feel that it is necessary that certified opticians should have given proof of some capabilities in this direction. The examination will involve the testing of lenses by simple optical bench and similar methods, the measurement of curvature, of angles and refractive indices of prisms, and simple photometry. In view of this being the first introduction of such experimental work into the examination, and of the shortness of the notice, the questions will be made as simple as possible, and a considerable margin of choice will be allowed

Town Tenants' League.

The annual meetng of the Town Tenants' League was held in the Whitehall Rooms, London, S.W., on June 23, Mr. W. H. Dickinson, M.P. (President), in the chair. In the course of his address the President explained the principles of the Town Tenants Bill, which are the same as those already embodied in the Town Tenants Act (Ireland), 1906. The leasehold system is particularly unjust to tradesmen who have built up businesses which may be practically confiscated owing to a refusal of the landlord to renew the lease. A resolution was passed calling upon the Government to grant facilities for the passing of the Bill which is now before Parliament, the speakers including the following members of Parliament : Mr. James Gibb, Mr. Timothy Davies, Mr. James Rowlands, and Mr. W. Field. The annual report was adopted. The League is non-political, the Hon. Secretary being Mr. B. B. Evans, 156 Cheapside, London, E.C., from whom particulars can be obtained.

Income-tax Trouble.

A curious situation has arisen regarding the payment of income-tax by Messrs. Shuker & Reed, Ltd., chemists, Launceston. From a statement published in the "Cornish and Devon Post" it appears that the two directors of the company, which is carried on as a private company, are Mr. C. B. Shuker and Mr. N. H. Reed. Following out what appeared to be the interpretation of Mr. Asquith's speech when he introduced his Budget in 1907, differentiating between earned and unearned income, the company passed a resolution that the whole of the profits should be divided between the directors as remuneration for their services, thus bringing the profits as earned income under Schedule E at 9*d.* in the pound. It now appears that, although the directors have paid their income-tax under Schedule E, the Commissioners have decided that as the company had previously been assessed under Schedule D they (the Commissioners) are entitled to continue to charge the company at 1*s.* in the pound on a three years' average of profits. The company have received a final demand for payment of the tax assessed under Schedule D within seven days, with a threat of distraint in case of non-payment. Mr. Shuker has expressed his intention of resisting the payment.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

The Kelp Industry.

A kelp-market was held in Ballycastle last week, when a large supply from Rathlin Island, Fair Head, and Tor Head was conveyed to town. At 5*l.* 5*s.* per ton, some 120 tons was sold.

Contracts.

Messrs. Boileau & Boyd, Ltd., Dublin, have been appointed contractors for the supply of medicines to the members of the Dublin Civil Service Guild, at a discount of 33⅓ per cent. off the list price.

Guardians' Doings.

The Local Government Board have written to the Guardians of the Naas Union requesting them to draw the attention of the medical officer of the Blessington dispensary district to the insufficient amount of the drug samples which are sent to the analyst.

In a letter read at the Castlerea Guardians, Mr. J. E. Brunker, L.G.B. pharmacist, referred to the high quality of the surgical instruments in the hands of the contractor to the Union, which it transpired were made in Sheffield. Mr. Grogan asked if it was part of this gentleman's business to advertise an English cutlery firm, because he (the speaker) had never heard of a L.G.B. inspector giving a certificate to Irish-made goods.

An Arrangement.

Mr. James Corcoran, pharmaceutical chemist, 76 Talbot Street, Dublin, proposes to pay the composition of 7*s.* 6*d.* in the pound in three instalments—namely, 5*s.* in cash within fourteen days from date of confirmation, and the balance in two equal instalments at three and six weeks respectively (see *C. & D.*, June 12, p. 898).

Dental Student's Action.

The case of Keogh *v.* The Incorporated Dental Hospital of Ireland (see *C. & D.*, June 12, p. 934) came up for judgment this week. The plaintiff claimed damages for libel because he had been refused admission to the hospital lectures. The hospital authorities had moved that plaintiff should furnish full particulars of the persons to whom the alleged libel was published or that the case be struck out. Mr. Justice Boyd, in delivering judgment, dismissed the application of the defendants, with costs, because, he said, the particulars sought are such as are particularly in the knowledge of the defendants.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Aberdeen.

Mr. G. W. Morgan (of Messrs. G. & W. Morgan, photographic artists, Aberdeen) was killed by falling from the London express train while it was travelling between Carstairs and Carlisle on June 25. Mr. Morgan, who was fifty-five years of age, served an apprenticeship as a chemist and druggist in Aberdeen, then went to California, and on his return commenced in business with his brother as a photographer. He is survived by a widow and a large family.

Dundee.

On Wednesday afternoon, June 16, the Dundee and District Chemists' Assistants' and Apprentices' Association

held their first annual picnic at Balruddery, a few miles west of the City, where a most enjoyable afternoon was spent. Besides games, there were rambles round the beautiful grounds. The party numbered eighty. The Association is now in good working order.

A smart, plausible, and talkative young man from Leeds has been calling on Dundee chemists, asking for temporary employment, even for a day, but probably prefers money without work. He did ask one chemist for 1*l*. He has different stories about prospective employment, and has been getting small sums from chemists. He is working his way north.

Edinburgh.

Methylated-spirit drinking is still the subject of tearful paragraphs in an evening newspaper.

At Edinburgh Sheriff Court on Tuesday, June 26, Alexandrina Rae (47) was sentenced to fifteen months' imprisonment for theft. It was stated that she would do anything to obtain money to buy drugs, for which she had a craving.

The annual bowling-match between Glasgow chemists and the Edinburgh Pharmacy Athletic Club will be played on the green of the Northern Club, Edinburgh, on Tuesday, July 6. Mr. Kitchin has charge of the Glasgow members' arrangements.

Glasgow and the West.

Glasgow pharmacists are feeling business somewhat "flat" at present.

Mr. J. Donald, chemist and druggist, has removed to New Buildings, off Main Street, Campbeltown.

Messrs. George Hicks & Sons, chemists and druggists, Rothesay, have acquired the business of the late John McKirdy, chemist, Rothesay.

Two little boys who found a bottle containing "belladonna" in an ashpit at Greenock, and drank some of it, were taken to the infirmary in a precarious condition, but have recovered.

The case of Whiteford *v.* McKellar (reported in the *C. & D.*, August 8, 1908, p. 226) came before the Court of Session, Edinburgh, on June 24, on appeal by the defender from the judgment against him by Sheriff Neish, of Greenock. The pursuer, Dr. Whiteford, sued for payment of 23*l*. fees for attending defender's wife in her confinement. Defender counterclaimed for 439*l*. expenses, arising from alleged unskilful treatment. The Sheriff found for the pursuer, with expenses, and dismissed the counterclaim. The Court of Session upheld this judgment, without expenses to either party.

Fifeshire.

Mr. James C. Irvine, Ph.D., D.Sc., has been appointed to the Chair of Chemistry in the United College, St. Andrews University, in succession to Professor Purdie, F.R.S. Dr. Irvine has been lecturer on organic chemistry at the University. He is thirty-four years of age, and began to study chemistry at the Glasgow Technical College. In 1895 he became Professor Purdie's assistant at St. Andrews, but three years later, with an 1851 Exhibition scholarship, went to Leipzig to study chemistry under the late Professor Wislicenus. There he graduated as Ph.D., and returned to St. Andrews in 1901, obtaining there the D.Sc., and has superintended research students in the laboratories equipped by Professor Purdie.

Weimar, in Germany, with a population of 32,000, has two pharmacies—privileged and State protected. As far back as 1817 a demand was made for a third pharmacy, and now, owing to the growth of the town, this has practically become an imperative necessity. The Government of the Grand Duchy entered into negotiations with the owners of the two existing pharmacies to buy back their exclusive rights, and laid a Bill before the Parliament to this effect. It is proposed to pay each of the two owners 2,000*l*. upon the opening of the first of the proposed new pharmacies, and 1,000*l*. when the second is opened, which, however, is not to take place within ten years. The holder of the new concession will have to pay 5 per cent. interest on the outlay of 4,000*l*.

French News.

(From the "C. & D." Paris Correspondent.)

Customs.—The Senate has nominated its Customs Committee. Six former members are not re-elected. Among the six who replace these we note the name of M. Cazeneuve, President of the "Pharmaceutical Group" of French Senators and Deputies, who will sit on the "3e Bureau" with M. Cæsar Duval, Senator and ex-pharmacist, and M. Brisson.

African Pseudo-Cinchona.—Before the Paris Academy of Sciences last week M. Guignard reported that the explorer Chevalier had found in the forests of the Ivory Coast a tree of the N.O. *Rubiaceæ*, the bark of which is used by the natives as a febrifuge. Professor Perrot, of the Paris School of Pharmacy, has separated an alkaloid from the bark which has febrifuge properties. Cinchonas are not known to exist in Africa, but, until a complete identification is possible, M. Perrot proposes to name the tree African pseudo-cinchona.

Budget Proposals.—France, like England, has a bad attack of Budget fever at present. Among the 1910 novelties proposed by a prudent and farsighted Minister of Finance is a halfpenny receipt-stamp for all sums above 2f. The penny stamp is already legally exacted for 10f. An increased stamp on large posters (which already cost 15c. to 25c., according to size), and an annual tax of 2f. on all establishments retailing food and drinks, drugs and chemicals, photographic goods, etc., to cover the cost of inspection under the new Adulteration Act, are also "on the cards."

"Antipyrine" Trade-mark.—The Tribunal de la Seine has ordered the managers of the French branch of the Laboratories Sauter, of Geneva, to pay 2,000f. compensation to the Compagnie Parisienne de Couleurs d'Anilin for illegal use of their trade-mark "Antipyrine du Dr. Knorr." The defendants did not accept the original verdict on February 28, but brought the case to the Court of Appeal, which confirmed the first finding on the ground that whoever buys a patented article and then works it into another form (in this case into tablets) for sale under the original maker's trade-mark is committing an illegal action. The defendants, moreover, do not appear to have been able to prove that the antipyrine was really that produced by the petitioners.

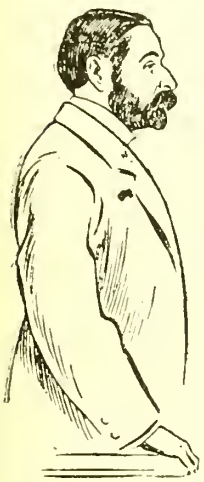
The Red Cross of Geneva is now so much used in connection with French pharmacy—it is a popular "luminous sign" for Parisian and other *officines*—that one is tempted to forget that it is barely half a century old. It is just fifty years ago—June 24, 1859—since the battle of Solferino was fought. After this sanguinary struggle, nearly forty thousand French, Sardinian, and Austrian wounded lay on the battlefield or in surrounding villages, practically uncared for; the overworked surgeons could only dress the wounds, and the ambulance men were busy at stretcher-work. A humane Swiss tourist in Italy, M. Dunant, was a chance eyewitness of this state of affairs, and set himself, with such volunteer helpers as he could find, to tend the men and supply their simple wants, re-dressing wounds, giving water, etc. He subsequently wrote a little book describing the shocking scenes and asking if it would not be possible to organise permanent and international volunteer first-aid, and recognise the neutrality of ambulances and wounded men. At Solferino ambulances were inadvertently fired on and the surgeons of the defeated army were kept prisoners of war. Napoleon III., Marshal MacMahon, and others were among M. Dunant's first converts, and the idea spread so rapidly that in 1864-65, before the great campaign of Sadowa and 1870-71 occurred, the Geneva Convention was held and the Red Cross badge adopted. It is interesting to add that the Dowager Empress Marie Feodorovna of Russia established a fund to provide prizes for inventions destined to facilitate the transport and relieve the sufferings of the wounded in time of war. The international jury are at the present time conferring in Paris as to the subjects of the next award, which takes place in 1912. There are three prizes of 600*l*. each, and the award takes place every five years.

Canadian News.

(From the "C. & D." Correspondent.)

Poison Cases.—Judge Bazin has dismissed the charge against C. E. Scarff, chemist, Westmount, for illegal sale of carbolic acid. This was the first of the 200 cases taken by Drs. Handfield & Meunier.—The charge against the Montreal Polyclinic, Ltd., of illegally selling cocaine was heard before the same Judge. The Polyclinic has a charter from the Dominion Government to dispense drugs, and claimed that this overrode the Provincial law. His Honour, having taken time to consider the case, upheld the contention of Mr. T. M. Tansey, for the Pharmaceutical Association, that the Provincial law governed, and accordingly condemned the Montreal Polyclinic, Ltd., to a fine of $25 and costs.—W. H. Chapman, 757 St. Catherine Street West, Montreal, sold calomel to A. Desrochers without entering it in the poison-book. Judge Leet, who heard the resulting charge, thought it was a trivial infringement, dismissed the charge, and proceeded with similar cases against ten other druggists, including Dr. F. O. Anderson and Dr. J. E. W. Lecours.

Quebec Pharmaceutical Association.—The annual meeting, in Montreal on June 8, was anything but a love feast. About forty members were present; some of them had large-sized complaints against the management, and for three hours there was a discussion of rather an acrimonious nature. In the end, however, the outgoing Council was sustained by a large majority. President Tremble stood second on the list of thirteen for re-election, and only one of the old Council members, Alderman Victor Levesque, was defeated. During the past six months the Council of the Association has employed detectives and taken action against a number of members of the Association selling cocaine, morphine, or their derivatives. This caused the trouble. Some of the druggists thought that too great severity had been shown, and that in some instances discrimination had been exercised in the prosecutions of druggists for the illegal sale of these habit-forming drugs. The chief accusation was to the effect that when the officers of the detective bureau were ordered to make the test certain druggists were "tipped off" that the detectives were coming. These accusations were indignantly refuted, the officers of the Association declaring that the order had been given to the detectives, and there had been no interference of any kind. Action was only taken against those who were found selling the prescribed drugs indiscriminately. From another quarter there was a complaint because of the failure to secure the passage of the Bill restricting the sale of morphine, cocaine, heroin, and their derivatives to the order of licensed practitioners in medicine, dentistry, and veterinary surgery, which was promoted in the last Session of the Legislature. The measure had been postponed from day to day, and finally shelved. The new Council was authorised to have the Bill re-introduced next Session. The election of six new members of the Council resulted in the following gentlemen being returned: Messrs. J. Constant, J. E. Tremble, A. J. Laurence, J. E. W. Lecours, O. H. Tansey, and M. Albert.



Mr. J. E. Tremble.

British Columbia Notes.—The nineteenth annual meeting of the British Columbia Pharmaceutical Association was held in the Oak Bay Hotel, Victoria, on June 10, Mr. E. S. Knowlton (President) in the chair. In his address Mr. Knowlton referred to the Dominion Patent and Proprietary Act as a measure that had so far worked no hardship upon anyone. He also had no fault to find with the Agricultural Poisons Act of this Province, which can hardly be said to be in working order yet, though its provisions are by no means terrifying. He counselled purchasing from local retail firms, as many retailers are guilty of patronising the mail-order system, thus setting a bad example to their customers. The election of Council for the ensuing year resulted in one new member, Mr. J. L. White, being elected, the other two being re-elected. The Council and officers now are: President, Mr. F. J. MacKenzie (New Westminster); Vice-President, Mr. John Cochrane (Victoria); Secretary-Registrar-Treasurer, Mr. James W. Browne, 500 Westminster Avenue, Vancouver. The Council is as follows: Messrs. John Cochrane, 1909-11 (Victoria); R. R. Burns, 1909-11 (Vancouver); J. L. White, 1909-11 (Greenwood); Joseph H. Emery, 1908-10 (Victoria); E. S. Knowlton, 1908-10 (Vancouver); F. J. MacKenzie, 1908-10 (New Westminster).—The annual meeting of the Canadian Pharmaceutical Association, which will be held at Banff, Alberta, on August 4, will be composed of delegates from every Province in the Dominion. Mr. Joseph H. Emery has been selected as the delegate from British Columbia.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australasia," copies of which can be obtained at 6d. each, post free, from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

Queensland.

Presentation to Mr. John Shirley.—On April 24 a number of past students of the Queensland College of Pharmacy made a presentation to Mr. J. Shirley, Inspector of Schools, and one of the lecturers at the College, whose duties ceased on the appointment of Mr. R. C. Cowley. Mr. Geo. Watkins (Chairman of the College of Pharmacy), made the presentation, which took the form of a Praxis microscope. Mr. Shirley, in acknowledging the gift, said it was about seventeen years since Mr. Watkins asked him to take charge of the botany class in the College, which had then been established. Except for a short interruption, he had been giving his services ever since.

A Medical Bill seems likely to be introduced during the session. A deputation from the Medical Board and the Queensland Branch of the British Medical Association had a very sympathetic hearing from Mr. Bell, Home Secretary, on May 12. Twice in recent years attempts have been made to get an amending Bill through. The last occasion was in 1900, when Dr. Mark, M.L.C., stated that the House was dealing with the Dental Bill, and two measures with somewhat similar purposes could not be undertaken in the one session. The Medical Board desire to raise the minimum training required for registration to five years instead of three, as it was fixed in 1867; to obtain power to remove from the register the name of a man who became criminal; and to charge a fee of five guineas for registration, so as to provide the necessary funds for administration. These points were all approved of by the Chief Secretary.

Victoria.

Eucalyptus Poisoning occurs periodically in different parts of Australia. On May 11 Donald Macdonald, aged 86, of Melton, Victoria, who had been suffering from a pain in his chest, drank a quantity of eucalyptus oil with a fatal result.

Dental Reciprocity.—Imperial reciprocity has to some extent been secured by Victorian dentists. Those who hold the diploma of the Australian College of Dentistry and have completed the additional requirements rendered necessary by the affiliation of the college with the University of Melbourne, are entitled, under special arrangement made by the Dental Board of Victoria with the General Medical Council of the United Kingdom, to registration as dentists in Great Britain. So says the annual report of the Dental Board of Victoria.

During the hearing at the Penzance County Court of a case of arrears which had accumulated upon a judgment summons, the Judge said defendant wrote stating that it "kept him all he knew to keep his child in patent medicines." The Judge remarked that perhaps was the reason why the child is so bad.

Cape Colony News.

(From the "C. & D." Correspondents.)

PERSONAL.—Mr. W. Elford Rogers, of Messrs. Oppenheimer, Son & Co., Ltd., left Cape Town on June 5 by the *Gascon* for a holiday visit to the Old Country.—Mr. T. K. Hughes, of Potchefstroom, Transvaal, has been appointed to the representative staff of Messrs. Burroughs Wellcome & Co. in South Africa.—Mr. W. Harlow, chemist, Hanover Street, Cape Town, left for a holiday by the East Coast route on May 19, and will arrive in England about the end of June.

MEDICINE-STAMP ACT.—Following upon the interview which the deputation of the Pharmaceutical Society had with the Prime Minister, a correspondent of the "Cape Times" pointed out the arbitrary and senseless character of the tax, and concluded thus:

As one who is conversant with the history of this unworkable and slovenly bit of legislation, which is happily alone, and has no parallel in any civilised country, I trust that amends will now be made to those whose business has been seriously dislocated by an absurd legislation a hundred years behind the times, and that notice will be taken of the expressed views of the Cape Pharmaceutical Society, the Northern Chemists' Association (Kimberley), and the whole of the chemists of Cape Colony, as voiced by the deputation just received by Mr. Merriman.

A SMART ADVERTISER.—A well-known chemist, who is the proprietor of a South African speciality for rheumatism, takes the Prime Minister severely to task in the daily Press, on account of his recent strictures upon patent medicines generally and the writer's proprietary in particular. After refuting many of the Premier's statements, the manufacturer adduces proof (in a half-column footnote) of the efficacy of his preparation, by quotations from testimonials he has received from individuals who have benefited by its use. It is not recorded whether the accommodating editor treated these quotations as correspondence or charged the usual rates.

Colonial and Foreign News.

STUDENTS OF PHARMACY are increasing in numbers in all the schools of pharmacy in Japan, consequent upon the new regulations.

THE KIOTE UNIVERSITY is adding manufacturing pharmacy to its pharmacy course. The Principal requires 33,000 yen from the Minister of Education for this purpose.

ASPIRIN TRADE-MARK.—Messrs. Bayer & Co. recently brought an action against a pharmacist in Prague for the infringement of their trade-mark "Aspirin." The apothecary in question had been selling acetylsalicylic acid in the form of tablets under the name "Aspirin." The case was withdrawn on the pharmacist paying compensation and publishing an explanation of his conduct.

OPIUM IN FORMOSA.—Last year Formosa imported an unusually large quantity of Persian opium to make up for the deficiency from India, no less than 210,212 lb. being shipped, against 145,270 lb. in 1907, and 146,193 lb. in 1906. The imports from British India were: 1906, 267,517 lb.; 1907, 212,313 lb.; and 1908, 141,547 lb. Turkey in 1906 sent 71,206 lb., *nil* in 1907, and 504 lb. in 1908; while no imports have been received from China for the last two years. In view of the above imports, which are almost equal to those of 1907, it would appear that opium-smoking in Formosa shows no diminution.

PROPOSED ROUMANIAN RECORD OF ASSISTANTS.—The Roumanian Pharmaceutical Association is desirous of introducing a record in which full particulars will be given regarding the personal and professional qualifications of each assistant employed in private pharmacies. The information is to be at the disposal of the employer, and the assistant on leaving is to add his personal experience to the information already recorded concerning himself. The proposal has raised much indignation among assistants, who complain that it is something very like a police record, over which they will have no control.

Contracts.

Bolton Guardians.—J. W. Brooks, 150 Deansgate, Bolton, for disinfecting-fluid.

Brighton Guardians.—Baiss Bros. & Stevenson, Ltd., for one year's drugs to the value of 402*l.* 16*s.* 1*d.*

Bristol Guardians.—Ferris & Co., Bristol, for drugs for the workhouses, homes, and outdoor poor.

Camberwell Guardians.—Burgoyne, Burbidges & Co., for the annual supply of drugs, with the exception of carbolic acid and tinctures for the infirmary, at 33 per cent. off catalogue prices.—The Apothecaries' Society, for the above excepted articles at 17½ per cent. off list prices; also for cotton wool at 10½*d.* per lb. and tow at 2½*d.* per lb.—Robinson & Sons, Ltd., for cotton-wool at 6*d.* per lb., borie lint at 8¾*d.* per lb., plain gauze at 2*s.* per lb. pkt., cyanide gauze at 9*d.* per doz. yards, and pink jaconet at 1*s.* 1*d.* per yard.—Leslies, Ltd., for iodoform gauze at 9*s.* 3*d.* per 100 yards and lint at 1*s.* per lb.—Hospital and General Contracts Co., for white open-wove bandages, 3-in. at 9*s.* 8*d.* and 2½-in. at 8*s.* 3*d.* per gross; grey, 3-in. at 8*s.* 11*d.* and 2½-in. at 7*s.* 6*d.* per gross.—S. Maw, Son & Sons, for surgical sundries at 10 per cent. off list prices.

Chorley Town Council.—John Riley & Sons, Hapton, for the supply of sulphuric acid for two years from July 1.

Cowes Urban Council.—Mr. G. A. Hillyer, 15 High Street, Cowes, for the supply of disinfectants.

Croydon Guardians.—At the meeting on June 29 a little breeze arising out of a motion by Mr. Bray that tenders for drugs should be submitted to and passed by the Guardians instead of simply going, as hitherto, to the Medical Superintendent and the Clerk. Mr. Bray said that Messrs. Baiss Bros. & Stevenson's tender had been accepted for twenty-four years. If any member of the Board held shares in a tendering firm it was always customary for him to withdraw. On being pressed for an explanation, he said he would ask the Clerk if it were true that he held shares in Messrs. Baiss Bros.—The Chairman: Don't answer that.—Mr. Bray rejoined that he had been driven into asking the question. His motion was adopted by fourteen votes to thirteen.

Eastry (Kent) Guardians.—Mr. A. E. Woodruff, pharmacist, Eastry, for chemists' sundries.

Hemel Hempstead Guardians.—Mr. F. Chapman, chemist and druggist, Hemel Hempstead, for three months' supply of surgical dressings.

Hull Town Council.—Mr. R. B. Sawyer, chemist and druggist, Hull, for drugs, etc., to the asylums.

Kidderminster Guardians.—Burgoyne, Burbidges & Co., for the year's drug supply.

Leighton Buzzard Guardians.—Mr. H. Samuel, Ph.C., Leighton Buzzard, for chemists' goods during the ensuing three months.

Tonbridge Guardians.—Mr. G. Hogbin, Tunbridge Wells, for disinfectants.

University College Hospital.—W. Martindale, for a portion of the year's supply of drugs and chemicals.

Warrington Board of Guardians.—Mr. Harold Smith, Warrington, for three months' supply of drug sundries.

West-end Hospital for Diseases of the Nervous System, Paralysis, and Epilepsy.—W. Martindale, for the supply of drugs during the year.

Whitby School Managers.—Mr. J. Brooks, chemist and druggist, 15 Flowergate, Whitby, appointed chemist for six months.

An Alluring Prospect.

[The editors of drug journals in Japan, at their annual dinner held recently in Yokohama, heard addresses by distinguished men (a Baron, etc.), which were followed by Geisha dances.]

In the Land of the Gay Chrysanthemum
The Editor's lot is light,
He can throw down his pen, to his "sub" say "Come,
We will dine at the Savoiritzium,
And gaze on the starlit night;
We will greet our colleagues from afar,
And awhile at the drug-trade glance,
Then we'll list to the wise, who the truth would bar,
Of the camphor-crop, or the anise star,
And we'll see sweet Yum-Yum dance."

But in England none so grey or glum
As the Editor—luckless wight!
He may long for the Gay Chrysanthemum
And the lily-scent and the wild bees' hum
In the land of pure delight;
But his fate is to sit and to pencil blue
On the sheets 'neath his piercing glance;
Not his to dine with the chosen few,
Or the golden spark of his youth renew
With the lightsome "Spring-Song" dance.

Legal Reports.

Trade Law.

"Orl" for "All" in Trade-marks.—Mr. Justice Eve gave judgment on June 30 in an application under the Trade-marks Act, 1905, for registration of the word "Osowoolo" and rectification of the register by expunging the word "Orlwoola" from it. Such words as the latter are now becoming common, the syllable "orl" being the Cockney rendering of the word "all," and the question arises whether combinations of it with ordinary words constitute invented words. In the present case the goods to which the word is applied are fabrics, and with respect to its suitability for registration as a trade-mark, his Lordship said: "To the eye the collocation of the letters in the word 'Orlwoola' presents, in my opinion, an invented word, but vocalised it suggests at once to the ear a combination of the two words 'all wool,' misspelt and with a meaningless suffix. Is such a word an invented word? Does it possess all the attributes necessary to be present before there is any invention? Lord Herschel, in the Solio case (1898, A.C., at p. 581), says: 'I do not think the combination of two English words is an invented word, even although the combination may not have been in use before; nor do I think that a mere variation of the orthography or termination of a word would be sufficient to constitute an invented word, if to the eye or ear the same idea would be conveyed as by the word in its ordinary form.' These observations were adopted and acted upon by Mr. Justice Cozens-Hardy and the Court of Appeal in the Uneeda case (1901, 1 Ch., 550; 1902, 1 Ch., 783), and I must follow their example and hold that the word "Orlwoola" was not under the statute of 1888, and is not under the statute of 1905 an invented word." On that ground, therefore, he could not sustain registration of the word; but, examining the facts as to its use as a distinctive mark, he said: "There are no such circumstances as would justify me in deciding that the respondents are not entitled to retain the advantage which the actual user of the mark for over twelve years has given them, and I think in the circumstances that the mark is registrable under the Act of 1905 as a distinctive mark, and accordingly that it cannot be expunged, although not a registrable mark under the statutes in force when it was in fact registered." His Lordship also came to the conclusion that registration of the word "Osowoolo" would be calculated to deceive, and he accordingly refused to allow the registration to proceed.

High Court Cases.

"FREEMAN'S EMBROCATION."

IN the Chancery Division of the High Court, Dublin, on June 29, before the Master of the Rolls, the case of D'Arcy v. Kissane was mentioned. The plaintiff, Mr. Morgan M. J. D'Arcy, pharmaceutical chemist, Meeting Street, Tipperary, claimed an injunction restraining Mr. John Kissane, pharmaceutical chemist, Main Street, Tipperary, from applying the description "Freeman's Celebrated Embrocation for Horses" to an embrocation prepared by the defendant, and falsely representing and passing it off as "Freeman's Embrocation for Horses," of which plaintiff is the proprietor. An injunction was also sought restraining defendant from passing off pills as "Dr. Barnett's Pink Pills," of which the plaintiff is the proprietor; and from infringing the right of the plaintiff to the use of these titles and descriptions.

When the case was called an arrangement was come to that it should stand over until next sittings, the defendant undertaking to keep account of sales. All costs were reserved.

Medicine-stamp Act, 1812.

SELLING AT A STALL.

AT the Llanelly Police Court on June 23, Morgan W. James, chemist and druggist, was summoned at the instance of the Commissioners of Customs and Excise for having exposed for sale a dutiable medicine unstamped, and for having no licence for the sale of dutiable medicines at the place where the article was exposed. Mr. C. C. Fitz Roy, Solicitors' Department, Custom House, prosecuted. The defendant said he had a licence for his former establishment in Cowell Street, and was of the opinion that it would cover his stall in the Market. The Excise officer subsequently informed him that a licence should be taken out for both premises, but he was in trouble over other matters and he forgot all about it. The Bench imposed a fine of 10*s.* and costs in each case, and the presiding Magistrate said that but for the circumstances of the defendant the fines would be much heavier.

Sale of Food and Drugs Acts.

GINGER-WINE.

AT the Dungannon Petty Sessions, on June 28, a publican named Hughes was prosecuted for selling ginger-wine containing 7 gr. to the pint of salicylic acid. The case was dismissed.

Bankruptcy Reports.

Re ALFRED ISAAC LEVY, 67 Mansell Street, Aldgate, London, E., lately sponge-merchant. The creditors met at the London Bankruptcy Court on June 29 before Mr. G. W. Chapman, Official Receiver, when it was stated that the liabilities were estimated at 1,000*l.*, and there were no assets in the estate. A previous failure is recorded against the debtor in 1901 when trading as a sponge-merchant in Houndsditch. In the absence of any offer the case was left with the Official Receiver to be wound up in bankruptcy, the debtor's public examination being fixed for July 16.

Re GEORGE GENGE ANDREWS, 33 Church Street, Twickenham, chemist.—The Official Receiver has issued his final report to the creditors, showing the position of the estate at the date of declaring a first and final dividend. The debtor was brought to the Court on the petition of Messrs. Butler & Crispe, and he filed a statement of affairs showing unsecured liabilities 296*l.* 2*s.* 4*d.* and assets estimated to produce 84*l.* The unsecured claims admitted have exceeded the above amount by 80*l.* The Official Receiver's accounts show that the net realisations of the estate have amounted to 64*l.* 1*s.* 7*d.* The costs of administration (including law costs of petition 9*l.* and auctioneer's charges 9*l.*) have amounted to 40*l.* 13*s.* 11*d.*, There has been an allowance to debtor of 3*l.* 14*s.*, and a payment of a first and final dividend to creditors of 11¼*d.* in the pound upon claims amounting to 384*l.*, absorbing 19*l.* 13*s.* 8*d.*, and accounting for the whole sum realised. The bankrupt has not applied for his discharge.

Deed of Arrangement.

BULL, WILLIAM ROBERT WATCHAM, 12 Hyde Park Terrace, Plymouth, Chemist.—Trustee, Robert Bromhead, 11 Princess Square, Plymouth, C.A. Dated June 21; filed June 22. Liabilities unsecured, 815*l.*; estimated net assets, 320*l.* Among the creditors are Sangers (16*l.*) and Wyleys, Ltd., Coventry (11*l.*).

Gazette.

Partnerships Dissolved.

ATKINSON, W., and AMBROSE, A. P., general practitioners, The Sweep, Clapham, London, S.W., under the style of Atkinson & Ambrose.

CURBISHLEY, E. H., and GARSIDE, J. J., veterinary surgeons, etc., under the style of Curbishley & Garside, Stockport, Chester.

GREENE, S. H., and MOWAT, H., physicians and surgeons, Bramley Road, Notting Hill, London, W., under the style of Greene & Mowat.

PANT, H. W. V. DER, and BELL, A. O., dentists, Worple Road, Wimbledon, London, S.W., under the style of Van der Pant & Bell.

WARR, J. H., and TRUNCHION, H. F., dentists and chemists, Copenhagen Street, Islington, London, N., under the style of J. F. Nottingham.

The Bankruptcy Acts, 1883 and 1890.

RECEIVING ORDER.

JOHNSTON, JOHN LLOYD, Upholland, near Wigan, Lancs, doctor of medicine.

ADJUDICATION.

UMPLEBY, SAMUEL SAYER, Redcar, and Middlesbrough, Yorks, chemist's manager.

THE employés of Messrs. Horner & Sons, 24 George Street, Tower Hill, had their annual outing on Saturday, June 26, at Southend, where, in spite of unsettled weather, a most enjoyable day was spent.

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

Thos. McCully & Co., Ltd.—This company has been formed, with a capital of 1,000*l.*, to acquire and carry on the business of a wholesale and retail druggist and merchant carried on by F. W. McCully as the Victoria Drug Hall, Londonderry

Lanarkshire Aërated Water and Bottling Co., Ltd.—Registered in Edinburgh. Capital 2,000*l.*, in 1*l.* shares. Objects: As the title implies. The first directors are W. M. Brown, D. Paterson, J. Watson, G. Bush, J. Campbell, J. Stewart, J. Findlay, and W. McAlister.

G. H. Morison & Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire from G. H. Morison certain inventions for scent receptacles and his business at Westinghouse Buildings, Norfolk Street, Strand, W.C., for perfumes, aromatic essences, liquid disinfectants, etc. The first directors are G. H. Morison and R. J. Koechlin.

Isdale & McCallum, Ltd. (P.C.).—Registered in Edinburgh. Capital 60,000*l.*, in 10*l.* shares. Objects: To purchase the business of Isdale & McCallum, soap-manufacturers, and to carry on the same and the business of manufacturing and general chemists, etc., Paisley. The first directors are R. Isdale, J. M. McCallum, C. Pollock, and C. J. McCallum.

Pure Chemical and Spice Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of grocers, drysalters, druggists, chemists, etc. The first subscribers are F. Walton, 10 Waverley Grove, Birkenhead, chemical and spice dealer (permanent managing director and chairman); L. Cromie, Waterloo, clerk; and P. W. Ardian, Liverpool, C.A.

Sanitary Floor Co., Ltd. (P.C.).—Capital 1,000*l.*, in 5*s.* shares. Objects: To acquire the business carried on by J. K. Colwell, A. J. C. Lickorish, and F. Barnes at 177 Temple Chambers, E.C., as the "Sanitary Floor Co.," and to carry on the business of dust-allayers, manufacturers of dustless powders, disinfectants, polishers, and polishing-powders, etc. The first directors are the above-named. R.O., 177 Temple Chambers, E.C.

Dr. Bow's Liniment, Ltd. (P.C.).—Capital 3,100*l.*, in 1*l.* shares. Objects: To take over the business of a manufacturer of and dealer in Dr. Bow's liniment carried on by M. R. Bow, M.B., C.M., at 7 South Gray Street, Edinburgh. The first subscribers and directors are H. B. Martin, Liverpool, stock and share broker, and M. R. Bow. R.O., 8 Union Marine Buildings, Dale Street, Liverpool.

Padiham Chemical Co., Ltd. (P.C.).—Capital 1,000*l.*, in 10*l.* shares. Objects: To take over the business of the Padiham Soap and Chemical Co., manufacturers of and dealers in soap and fire-lighters, drysalters, and manufacturing chemists. The first subscribers are R. Wilkinson, Padiham, traveller; J. Hargreaves, Padiham, hairdresser; and M. Taylor, Padiham, retired draper. R.O., West Street, Padiham, Lancs.

American Animal Therapy Co., Ltd. (P.C.).—Capital 12,000*l.*, in 1*l.* shares. Objects: To acquire the right to import or manufacture, buy, sell, and deal in products or specialities of the American Animal Therapy Co., of Illinois, to adopt an agreement with H. H. Meyers, financier, 114 Piccadilly, W., and to carry on the business of chemists, druggists, drysalters, etc. The first director is Mr. Meyers. R.O., Winchester House, Old Broad Street, E.C.

Corder & Co., Ltd. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at 43 North Bridge Street, Sunderland, as "H. S. Corder & Co.," to adopt an agreement with R. C. S. Houseman, and to carry on the business of chemists, druggists, drysalters, oil and colourmen, etc. The first subscribers and directors are R. C. S. Houseman, Sunderland, druggist, and J. W. Kendal, Sunderland, chemist and druggist. R.O., 43 North Bridge Street, Sunderland.

Baiss Bros. & Stevenson, Ltd.—The preference dividends for the six months ended June 30 have been posted.

Homocea, Ltd.—The report for the year ended March 31, 1909, states that after paying working expenses, all advertising and other expenses, there remains a balance of 276*l.* 7*s.* 6*d.* carried forward. These figures compare unfavourably with those of last year, but this is partly the result of the policy of charging the cost of the stall at the 1908 White City exhibition (including the large number of samples distributed there) in the accounts.

A. S. Watson & Co., Ltd., Hong-Kong.—The report of the general manager for the year ending December 31, 1908, states that the net profits for the twelve months, after paying all charges, amounts to $76,499, to which is brought forward $6,438—total, $82,938. After deductions, there is available for appropriation $76,613. An interim dividend of 3 per cent. was paid in November last, absorbing $27,000. It is now proposed to pay a further dividend of 3 per cent., which will absorb $27,000, to write of building improvements $20,000, and to carry forward $2,613.

Boots, Cash Chemists (Eastern), Ltd.—The seventeenth annual meeting of the shareholders was held at St. Pancras Hotel on June 30, Mr. Jesse Boot in the chair. In moving the adoption of the report (*C. & D.*, June 26, p. 972), Mr. Boot referred to the passing of the Poisons and Pharmacy Act, and said: "We are now on a friendly footing with the pharmaceutical authorities, who are the regulating body in everything that respects the technical part of the business—that we retain our signs, our house-flag, so to speak, under which we compete for our business, the well-known name of Boots Cash Chemists, not a mere Boots drug-stores; and last, but not least, we have established a better status for qualified chemists, of whom we have over 500 in our associated companies, and whom I regard as the finest staff of educated and diplomaed men connection with the chemist's business in the country." Sir James Duckworth, M.P., seconded the motion, and the report was unanimously adopted. The rest of the business was formal.

Mortgages and Charges.—The following has been registered: *James Boulton & Co., Ltd.* Assignment of book-debts, present and future, dated June 7, 1909, to secure 200*l.* Holders: Van den Berghs, Ltd., 82 Fenchurch Street, E.C.

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

Mr. H. S. Fargher, chemist and druggist, has removed from No. 21 to 12 Caroline Street, Cardiff.

Messrs. Bamborough, Ltd., have closed their premises at 776 High Road, Streatham, London, S.W.

Mr. P. F. Douthwaite has purchased the business of Mrs. M. A. Hart, 3 Cemetery Road, Doncaster.

Messrs. Watson Plaistow, Ltd., have opened a drug-store at 103 Woodgrange Road, Forest Gate, E.

The J. D. Riedel Co. have removed their offices from Cross Lane and Harp Lane to 54 Cannon Street, London, E.C.

Mr. H. Lloyd, chemist and druggist, has disposed of his business at 41 High Street, Teddington, to Mr. P. Stacey, pharmacist.

Mr. J. H. Collins, chemist and druggist, late of Brockley Road, London, has opened a pharmacy at Brighton Road, Coulsden, Surrey.

Taylor's Drug Co., Ltd., have purchased the business of Messrs. T. D. Veitch & Son, chemists, Cheapside and Market Place, Shildon.

Mr. T. Ramsden, chemist and druggist, 118 High Street, Gillingham, has closed his business, the lease being taken by the drapers next door.

Mr. O. R. Windemer, pharmaceutical chemist and optician, late of Surbiton Hill, Kingston-on-Thames, has opened a high-class pharmacy at 6 Station Road, New Barnet.

Mr. J. H. B. Green, chemist and druggist, formerly of Westbury, has recently purchased the business of Mr. R. C. Spurin, chemist and druggist, 28 Tavistock Road, Plymouth.

The Partnership between Mr. Arthur Lander and Mr. John Thomas Smith, chemists, opticians, etc., trading as Lander & Smith at the Medical Hall, Canterbury, has been dissolved, and the business at the above address will be carried on by Mr. A. Lander.

Mr. F. J. H. Wrothwell, M.P.S., Corporation Street, Middlesborough, is having a remnant sale, he having disposed of the remainder of his lease of the premises to a firm of drapers, and is fitting up premises at 219 Lynthorpe Road.

Birth.

Lloyd.—At Morvan, Colwyn Bay, on May 21, the wife of M. W. Lloyd, chemist and druggist, of a daughter.

Marriages.

Bennett—Kendall.—At St. Mark's Church, Battersea Rise, on June 30, by the Rev. T. G. Gilling-Lax, Vicar of St. Margaret's, Streatham, assisted by the Rev. J. F. G. Glossop, Charles Thomas Bennett, B.Sc., A.I.C., F.C.S., to Ethel Maud, youngest daughter of the late Mr. John Kendall, chemist and druggist.

Burr—Michie.—At the Carlton Hotel, Aberdeen, on June 22, by the Rev. D. Lundie, Tongue (uncle of the bride), assisted by the Rev. Jas. Laing, Strachan, Patrick Burr, chemist and druggist, to Margaret A., only daughter of the late Mr Charles Michie, Lochnalair, Crathie.

Davie—Wilson.—At Academy Rooms, Partick, on June 22, by Rev. J. Gunson, William Taylor Davie, chemist and druggist, Portsoy, Banffshire, to Janet Dalgleish, eldest daughter of Mr. Robert Wilson, 6 Peel Street, Partick.

McClure—Dodds.—At St. George's, Hanover Square, on June 25, Mr. Robert L. S. McClure, son of the proprietor of "McClure's Magazine," to Miss Edith Dodds, daughter of the Secretary of the Board of Pharmacy of Illinois.

[The couple were fellow-students at Knox College, Gatesbury, Ill. They both graduated last year, and a few days before their marriage arrived in England. After the ceremony the wedding-party motored to the Savoy, where the breakfast was served.]

Wilson—Metcalfe.—At Dilston Road Wesleyan Church, Newcastle-on-Tyne, on June 29, George Wilson, chemist and druggist, Dartford (Kent), to Gertrude Allison, eldest daughter of Mr. Thos. Metcalfe, Newcastle.

Deaths.

Beveridge.—At Edinburgh on June 29, Mr. John Beveridge, chemist and druggist, Canonmills Bridge, Edinburgh, aged seventy-four. Mr. Beveridge fell ill suddenly and became unconscious in the street while on his way home on the evening of June 24. He was taken to the Royal Infirmary, where it was ascertained that he was suffering from hæmorrhage on the brain. He continued in a more or less unconscious condition until he died on Tuesday morning. Mr. Beveridge served his apprenticeship with Messrs. Duncan, Flockhart & Co., and afterwards began business on his own account in Berwick-on-Tweed. He subsequently acquired a pharmacy in Anstruther, Fifeshire, but ultimately returned to Edinburgh, where he had a shop in Spence's Place, Morrison Street. Six or seven years ago he acquired the business of Mr. Nelson at 6 Canonmills Bridge, which he continued to carry on under the name of Messrs. Nelson & Co. Mr. Beveridge is survived by his widow and three sons, one of whom is in the Geographical Department of the Canadian Government at Ottawa.

Kinsley.—On June 20, at Charing Cross Hospital, from heart-failure, Mr. F. W. Kinsley, 5 Effra Mansions, Crownstone Road, Brixton, London, S.W., aged fifty-three. Mr. Kinsley, who had been in poor health for some time past, was the town representative of Messrs. Robert Ferber & Co., medicinal-capsule manufacturers, Southwark Bridge Road, S.E., and had been with them for five years, having previously been in the employ of Messrs. Thomas Christy & Co., Hewletts, and Hockin, Wilson & Co. He leaves a widow and two children.

Mr. F. W. Kinsley.

Lindsay.—At Margaret House, Millport, on June 22, Catherine Ewing, Glencoe, Millport, widow of Mr. John Lindsay, chemist, Biggar.

Bolesworth.—At Queen's Hospital, Birmingham, on June 28, Kate, widow of Mr. W. Bolesworth, chemist and druggist, Saltley.

Henderson.—At Fyvie Cottage Hospital on June 29, following upon an operation, Mr. James Cruickshank Henderson, chemist and druggist, Fyvie. Mr. Henderson was in business before the 1868 Act passed. He is survived by a widow and a son and a daughter.

Veitch.—At Bishop Auckland on June 18, Mr. Thomas Dennison Veitch, chemist and druggist, who succeeded to the business of his father, and about eight years ago retired in favour of his son, Mr. W. C. Veitch, who predeceased his father only by a week.

White.—At Bottesford, Leicestershire, on June 25, Emma, widow of the late Mr. Edward White, chemist, Bottesford, aged sixty-six.

Recent Wills.

The dates in parentheses refer to the issues of "The Chemist and Druggist" in which the deaths of the testators were reported.

Mr. Robert Leman Churchyard, of 112 Camden Road, London, N.W., pharmaceutical chemist, left estate valued at 1,524*l.* 13*s.* 2*d.* gross, of which 1,481*l.* 19*s.* 4*d.* is net personalty. (*C. & D.*, May 29, p. 823.)

Mr. Henry Driver Holloway, of Willersley, 27 Parkhill Rise, Croydon, and of 78 New Oxford Street, London, W., left estate valued for probate at 42,681*l.* 16*s.* 5*d.* gross, and at 22,689*l.* 17*s.* net. The bequests include 50*l.* each to Horatio York, Robert Hill, and Alarice Wilson, all of 78 New Oxford Street. (*C. & D.*, April 17, p. 591.)

Personalities.

Mr. J. R. Birkett, chemist and druggist, has been elected an Alderman of Morecambe Town Council.

Mr. John Carman, chemist and druggist, Holyhead, has been appointed a Justice of the Peace for Flintshire.

Mr. Edwin Johnston, of Johnston, Ltd., cash chemists, Green Street, Upton Park, Essex, has qualified as a medical man.

Mr. Evan Jenkins, chemist and druggist, 6 Maple Villas, London Road, Faversham, has been elected to a vacancy on the local Town Council.

Mr. Henry Wippell Gadd, of Exeter, and Mr. Walter H. W. Idris, of Camden Town, both of the Middle Temple, were called to the Bar last week.

Mr W. Boulton Conyngham, F.C.S., special representative for Messrs. Bengers, Ltd., in the United States, sails from New York to-day for a holiday in the Old Country.

Sir Joseph Hooker, O.M., formerly Director of the Royal Gardens at Kew, celebrated his ninety-second birthday on Tuesday. He received an address of congratulation from the Linnean Society, of which he was elected a Fellow in 1842.

Mr. Lewis Ough, pharmaceutical chemist, of Messrs. Richardson & Co., Ltd., Leicester, was on June 24 installed W.M. of the John of Gaunt Lodge, Leicester, No. 523. The installation was followed by the customary banquet.

Mr. Edward Hill, senior dispenser to the National Hospital for the Paralysed and Epileptic, who is retiring after twenty-two years' service, has been presented with a solid silver tea service and a tray suitably engraved by past and present fellow-workers in the hospital.

Mr. Thomas Lakeman, of Sydney, general manager and representative in Australasia and New Zealand for Wm. Harland & Son, varnish manufacturers, Merton, is now spending a holiday in England. Mr. Lakeman was formerly on Messrs. Burgoyne, Burbidge & Co.'s staff.

Mr. Frederick Davis, of the Imperial College of Chemistry, Ludgate Circus, London, E.C., having completed the three years' course of study and passed the examinations upon "The Evolution of Mankind as seen in the Child and in the Race," the fourth and fifth years' work in Anthropology, and "The History and Principles of the Biological Sciences," together with Psychology, is now eligible for the diploma in the humanities of the University of London.

Newcastle Pharmacists and Pharmacies.

Being the Third of a Series of Articles on this Year's Rendezvous of the British Pharmaceutical Conference.

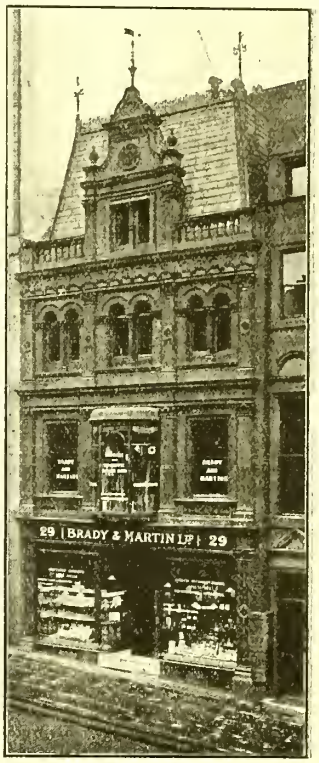
WHILE the purpose of the present article is mainly to deal with the men and things of to-day, something must be said of the past. The first meeting of the British Pharmaceutical Conference was held in Newcastle, with Henry Bowman Brady as its Secretary. The author of the first paper read was Barnard S. Proctor, and in the discussion John Mawson took a leading part. A goodly Novocastrian triumvirate, now, alas! gone so far as personal presence is concerned; but they have left rich memories of fine work for their craft and for humanity. Joseph Wilson Swan was then at work as an untiring experimentalist on the lines which have produced the lamp that now illuminates the domestic world. The nearest pharmacy to the place of meeting was kept by James Crossley Eno, whose Fruit Salt is known "in all ends of the earth."

Turning to the pharmacies and pharmacists of to-day, we propose to refer to the more important of them from the B.P.C. point of view. More could be said, but considerations of space intervene.

The business of Mawson, Swan & Weddell was established by the late John Mawson about sixty years ago. His early failures, his perseverance, and his ultimate successes—for they were many—the heroism of the man and the tragedy of his death form a story too long to go into now. This one business branched into many—viz., a great yeast business, a large concern in lubricating-oils, etc., and one of the largest book, stationery, and art-publishing houses—in all of which he had as partner Joseph Wilson Swan, whose services to science and technology were recognised by knighthood in 1904. The original establishment was the home of photographic collodion in its early years, and of the dry plate in later times. Here, too, Sir Joseph Swan worked out his invention of the autotype or carbon process and the incandescent electric lamp. About twenty-eight years ago Mr. J. B. Payne took charge of the chemical apparatus and photographic branch, and Mr. George Weddell of the pharmacy side in new premises in Grainger Street West. Mr. Weddell is the Chairman of the Local Committee of this year's Conference. He is now sole proprietor of the pharmacy. He, too, has been fertile in inventions; the Mawson Filter was his, so was Cerebos salt, now worked the wide world o'er by the companies he established. He is engaged in silver-mining in Nevada, and makes yearly visits to that distant State. Mr. Weddell has many hobbies, or, as he would call them, "side-lines." "How do I Stand?" a capital little work on bookkeeping, was his, and his fraternal spirit led him to present a copy of it to every brother chemist. His principal essay in literature, "Arcana Fairfaxiana" (a volume of antiquarian lore), was published about fifteen years ago. His favourite study is sociology, and on this he has contributed papers to the British Association and other learned societies.

Mr. G. Weddell,
Chairman of the Local Committee.

The business of Brady & Martin, Ltd., was established by the late Henry Bowman Brady, LL.D., F.R.S., in 1855. The son of an eminent local medical man, he was a scientist to the core. His most enduring contributions were the working up of the *Foraminifera* of the *Challenger* Expedition; his masterly work found recognition in his F.R.S. The present head of the business is Mr. Nicholas Henry Martin, F.R.S.E., Ph.C., who succeeded to the business and adopted the firm name, Brady & Martin, in 1876. Mr. Martin was for two years President of the Conference, and was Chairman of the Local Committee at its last visit. He is a J.P. for Newcastle and for Durham County. In 1884 he was joined in partnership by Mr. C. E. Stuart, B.Sc., a son of the late Mr. Stuart, of Dinneford & Co.'s; and in 1898 Dr. Wm. Martin, son-in-law of the principal, became a partner. Four years later the business of Mr. John Bolam was purchased and amalgamated, and in 1903 the firm was registered as a company with Mr. Martin, Mr. Stuart, and Dr. Martin as directors. The original establishment in Mosley Street is a very handsome pharmacy, where the retail work of the firm is carried on together with the optical and photographic business. The wholesale and surgical and scientific instrument departments are housed in palatial buildings in Northumberland Road (see p. 12).



29 Mosley Street,
Newcastle-on-Tyne.

"Eleven Grey Street, Newcastle," was for long an interesting address to pharmacists; because from it came to them Barnard Proctor's "Lectures on Pharmacy," and many communications to this and other journals, all

11 Grey Street, Newcastle-on-Tyne.

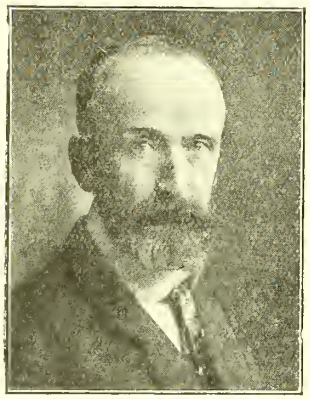
20 WEST GRAINGER STREET, NEWCASTLE-ON-TYNE.

124 NORTHUMBERLAND STREET, NEWCASTLE-ON-TYNE.

MESSRS. BRADY & MARTIN'S WORKS, NORTHUMBERLAND ROAD.

151 BARRAS BRIDGE, NEWCASTLE-ON-TYNE.

redolent of quaintness and full of good observation and commonsense science. He was the fifth of a race of Proctors who had carried on the business since 1768. In 1886 he was joined as partner by Mr. T. Maltby Clague, who succeeded to and still carries on the concern. Mr. Clague was born and apprenticed in Douglas, Isle of Man, and, after a stay at Leamington, went to Plough Court and thence to his present habitat. He is now, for the second time, Local Secretary of the Conference, and is serving his fourth year of office as President of the Newcastle Chemists' Association. One of his hobbies is electrical science, and this he has worked into his business in the form of an *x-ray* department with a full instalment for high-frequency, electrolysis, etc. Mr. Clague is an Associate of the Institute of Electrical Engineers, and a member of the Council of the Newcastle Chamber of Commerce, and has a place in its Panel of Arbitrators.



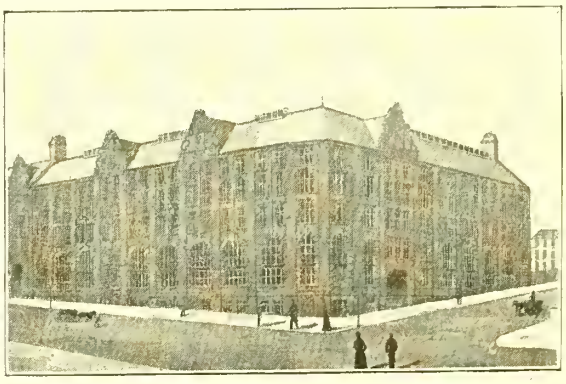
MR. T. M. CLAGUE, Hon. Local Secretary.

At Barras Bridge, close to Conference headquarters, is the very handsome pharmacy of Messrs. W. Owen & Son. Inside and outside it is a fine specimen of Sage's best work, of which we give exterior and interior views on the next page.

Messrs. Marley & Russell have a pretty little pharmacy near the top of Northumberland Street. Mr. Russell is an active man in the Local Executive for this year's Conference.

MR. C. I. RUSSELL.

Messrs. John Ismay & Sons, wholesale druggists, occupy a huge block in City Road, which they built a few years ago. The business was begun by Messrs. Dalgleish & Ismay in the Sandhill. Mr. Dalgleish was an apothecary, and an early and ardent advocate of vaccination long before it was compulsory. He vaccinated all comers at his own cost, and in times of panic would have patients by the hundred in the day. The present owner of the business is Mr. M. P. Ismay, whose eldest son, Mr. Reginald, is Treasurer of the Local Committee. Mr. W. Kerse, the general manager, has always been prominent in local matters affecting the craft, and has acted as Treasurer of the Chemists' Association since its formation. Mr. Fred Gilderdale, who has charge of the laboratories, has been Secretary and President of the Association.



MESSRS. J. ISMAY & SONS' PREMISES.

Another instance of a business begun as a retail and blossoming forth at later date into a big wholesale concern is afforded by Wilkinson & Simpson, Ltd. Started 130 years ago by a Mr. Turner, the business received its first impetus by the manufacturing ability of Mr. Fairs. The development on present lines commenced when two of its old apprentices, the late Mr. Wilkinson and the present chairman of the company (Mr. Thomas Simpson), joined

MR. R. ISMAY, Treasurer of the Local Committee.

MR. F. GILDERDALE, F.C.S.

MR. W. KERSE.

MR. H. NOBLE, Assistant Local Secretary.

NEWGATE STREET ENTRANCE.

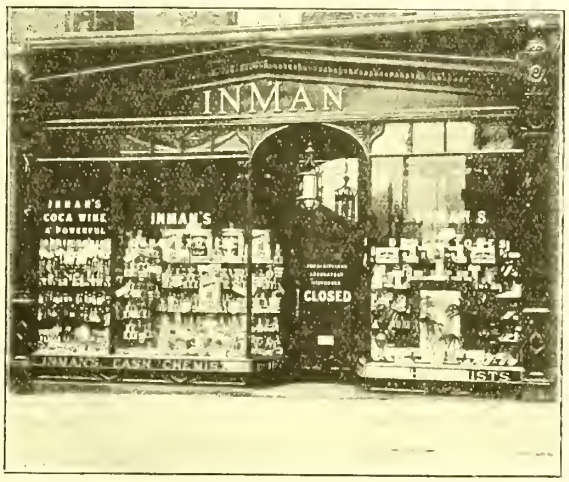
forces to build up a wholesale and manufacturing business. The old site in Newgate Street has been added to, and a large separate factory erected in Dispensary Lane. Mr. Thomas Simpson is, as in 1889, a keen worker on the local Executive Committee. Mr. L. Williamson, the general manager, is Chairman of the Excursions Committee, and Mr. H. Noble (chief of the laboratory staff) is Assistant Local Secretary.

MR. L. WILLIAMSON, Chairman of the Excursion Committee.

Messrs. Spencer Dakers & Co. are wholesale chemists and druggists of long standing, and carry on business in Low Friar Street. Mr. Dakers, jun., is on the Local Executive Committee of the Conference.

The only local house devoting itself to druggists' sundries is that of Messrs. Hall, Forster & Co., and though a young firm it has vigour and go in all that it does.

The drug-store element is in Newcastle mainly represented by three firms. Messrs. Inman, Ltd., was started in 1880 by Mr. James Henry Inman, a brother of Mr. William Inman, of Edinburgh. The business began in premises (now discontinued) at 40 New Bridge Street, and extended



45 NORTHUMBERLAND STREET, NEWCASTLE-ON TYNE.

in 1888 to 45 Northumberland Street (the present headquarters), branches being opened later at Clayton Street and Shields Road, Newcastle, Whitley Bay, and Blyth. On the death of Mr. J. H. Inman in 1900, the whole concern was purchased by Inman's Stores, Ltd., Edinburgh, Leith, and Kirkcaldy.

Messrs. Alwyne Dyson, who have three or four shops in the district, are a concern of native growth, and Messrs. Milburn, of Hull, have also a shop in Northumberland Street. The two last named go in considerably for the photographic-apparatus trade.

Hotels for B.P.C. Visitors.

We are asked to announce that all the hotel accommodation at the headquarters in Newcastle of the British Pharmaceutical Conference is taken, but there are many other first-class hotels where visitors can be accommodated.

GERMAN EAST AFRICAN CLOVES.—The experiments which have been made to introduce clove-trees into German East Africa, with a view to competition with Zanzibar, have proved abortive, and all the trees planted on the island of Mafia, which has a similar geographical position to Zanzibar and Pemba, although lying further south, are reported to have succumbed.

Pharmaceutical Society.

NORTH BRITISH BRANCH.

THE first meeting of the new Executive was held at 36 York Place, Edinburgh, on Friday, June 25. Mr. WM. L. CURRIE (Vice-President of the Society) was in the chair and welcomed the new members of the Executive, Dr. Coull, Mr. Kitchin, and Mr. Wilson.

ELECTION OF OFFICE BEARERS.

Mr. STORRAR, in proposing the re-election of Mr. J. P. Gilmour as Chairman, said although it were for nothing else than as a matter of courtesy, it was only right that they should ask him to become Chairman, because he had not as yet filled the full term of office. Mr. Gilmour had proved himself a thoroughly competent occupant of the chair; he is a good pharmacist, added Mr. Storrar; he knows the wants and aims of pharmacists, and has great experience in pharmaceutical politics, and can guide us in our deliberations.

Mr. GILES seconded the nomination, which was unanimously adopted

The VICE-PRESIDENT expressed his pleasure that Mr. Gilmour had been unanimously elected to the chair, and said it was a source of satisfaction to him that he had again been placed in that position.

Mr. GILMOUR, in returning thanks, said he was greatly beholden to them for having again placed him in the position of Chairman, and he trusted that the knowledge and experience he had acquired during his short term of office would be at their service.

Mr. JAMES REID then proposed the re-election of Mr. Giles as Vice-Chairman, which Mr. J. W. SUTHERLAND seconded, and it was agreed to.

The VICE-PRESIDENT having congratulated Mr. Giles, he returned thanks.

The following gentlemen were elected the General Purposes Committee: The Chairman, the Vice-Chairman, Mr. Cowie, Dr. Coull, Mr. Forret, Mr. Glass, Mr. Nesbit, Mr. Fisher, Mr. Storrar, Mr. Currie, and Mr. David Gilmour.

The Nomination of Examiners Committee is to consist of the Chairman, the Vice-Chairman, Mr. Forret, Mr. Anderson Russell, Mr. Doig, and Mr. Sutherland.

The General Purposes Committee was empowered to arrange for a special lecturer to open the winter session, and to prepare a programme for the evening and day meetings. Mr. SUTHERLAND suggested that the day meeting should not be so crowded, and that, instead of having an afternoon sederunt, they might have one meeting till half past one or two o'clock. He believed that would be more suitable to most of the members. It was agreed that the committee should consider this suggestion.

The following were appointed delegates to the British Pharmaceutical Conference at Newcastle-on-Tyne: The Chairman, Vice-Chairman, Messrs. Nesbit, Wilson, Cowie, Sutherland, Kitchin, Glass, and Dr. Coull.

SECTION 2 LICENCES.

The Executive then went into committee to consider certain matters in connection with the present position in regard to the Poisons and Pharmacy Act, 1908. The ASSISTANT-SECRETARY communicated the information he had succeeded in obtaining as to the granting and refusing of licences in various burghs and counties in Scotland, and the General Purposes Committee was instructed to arrange the information and remit it to the Council.

This was all the public business.

Section 2 Licences.

Mr. R. L. Gifford has given notice to move at the meeting of the Pharmaceutical Council on Wednesday, July 7:

> That, in view of the indiscriminate granting of poisons licences by local bodies, in contradiction to the specific statements and assurances of the Ministers in charge of the Poisons and Pharmacy Bill during its passage through Parliament, the Government should be pressed to issue a circular to the bodies concerned, pointing out that the licences were only to be granted where ample facilities do not exist, and that there is reason to believe that licences are being issued too freely.

Westminster Wisdom.

A Record of Parliamentary Progress.

Mr. Samuel's Promotion.

Very general satisfaction has been expressed, both in and out of Parliamentary circles, at the preferment of Mr. Herbert Samuel, M.P., who has been appointed to the Chancellorship of the Duchy of Lancaster, rendered vacant by the resignation, owing to ill-health, of Lord Fitzmaurice. Mr. Samuel, whose conduct of the Poisons and Pharmacy Bill of last Session, as well as that of the Children Bill, gained for him the warmest approbation on both sides of the Chamber, has long been marked out for political preferment, and the Privy Councillorship which was conferred upon him some time ago was regarded as only a first step in that direction. The right hon. gentleman was recently described in the House of Commons by one of his political opponents as having probably the clearest brain of any member in that assembly.

Mr. T. H. W. Idris, M.P.

It has for some time been known in Parliamentary and private circles that Mr. Idris, the Liberal Member for the Flint District, does not intend to seek re-election at the end of the present Parliament, and we learn on excellent authority that this is the fact. Mr. Idris, as is well known, sustained a very severe accident two or three years ago, from the effects of which it cannot be said that he has yet entirely recovered, and this, together with the increasing strain of Parliamentary life, has led him to the conclusion that he must withdraw altogether from Parliamentary life. Mr. Idris's services at St. Stephen's in all matters connected with Pharmacy, and notably in the case of the Poisons and Pharmacy Bill of last Session, have always been of an unremitting character.

Irish Companies' Apprenticeship Question.

We are informed that the Chief Secretary for Ireland has been asked this week to receive a deputation from the representatives of the pharmaceutical limited companies in Ireland in regard to the apprenticeship question, which, it may be remembered, was left over when the Poisons and Pharmacy Act was under consideration last Session. Mr. Birrell will be asked to remedy the grievance under which Ireland suffers owing to the omission of the apprenticeship question from the Act—an omission which was due to the fact that Mr. Herbert Samuel refused to accept the clause unless it were quite uncontroversial. Mr. Birrell will now be asked to introduce a short Bill to remedy the grievance complained of. We learn that the deputation will be received at the House of Commons on Tuesday next, and that it will be introduced by Mr. T. H. Sloan, M.P. The Irish Pharmaceutical Society will not be represented at the interview.

New Duties.

Sir John Dewar, M.P., has given notice of his intention to move the following at the end of Clause 61 of the Finance Bill, which imposes an additional 3*s.* 9*d.* per proof gal. on spirits :

> Provided that, if the spirits be of an age of not less than five years, the duty shall be 2*s.* per proof gal., and if the spirit be under five, but over three, years of age, the duty shall be 2*s.* 9*d.* per proof gal., the age of the spirits that have been blended or vatted being taken to be the age of the youngest spirit in the blend or vat.

Sir John also proposes in the same clause to substitute 1*s.* 6*d.* for 3*s.* 9*d.* as the duty.

Sir John Dewar has informed our Parliamentary correspondent that he is unable to say what effect his amendment will have on rectified spirit used by chemists, but he thinks none. [This, as far as we can judge, is the case, but we see no reason why new rectified spirit should be taxed more than old whisky.—Editor *C. & D.*]

In the reply to Mr. Jeremiah Macveagh, on Monday, the Chancellor of the Exchequer stated that gasoline or refined petrol used for lighting purposes comes within the definition of motor spirit, but, by Clause 65 of the Finance Bill, it will be a matter for decision by the Commissioners of Customs and Excise whether the spirit might be delivered duty free for such purposes under such conditions as they might impose for the protection of the revenue, or whether duty must be paid on the spirit and a claim for repayment made subsequently.

The question of the spirits surtax and the penny added to it when corn-duty was imposed by Mr. Ritchie was raised by Mr. Timothy Davies on Tuesday, and Mr. Hobhouse, replying to him, said the reasons for not removing the penny again were set out in Appendix No. 1 to the Report of the Industrial Alcohol Committee, 1905.

In reply to questions on Wednesday Mr. Hobhouse stated, in regard to Excise licences held by rectifiers, spirit dealers, and others which expire on July 6, that they will be continued until September 30, as provided by the Finance Bill, and that the whole of the licence duties will be payable at the old rate, and the proper proportion of the additional licences to retail on September 30.

Medicated Wines.

We are informed that, as the result of the meeting of Liberal Members of Parliament which was held at the House of Commons last week on the subject of the licence-duties under the Budget, the resolution passed on that occasion has now been forwarded to the Chancellor of the Exchequer urging that in place of the annual value some other basis should be adopted for levying the licence-duties, such as a percentage on the trade of each house, under which the incidence of the duty could be more equally distributed over the whole of the United Kingdom. The interview, we understand, is unlikely to take place in the course of the present week, but when it does take place it is the intention of one or more of its members to raise the question of medicated wines. Some importance is attached at St. Stephen's to the fact that one chemist, holding no fewer than thirty of these licences, has decided to abandon the whole of them, so small is the trade and so heavy the new impost. [This refers, as previously stated in the *C. & D.*, to Parkes' Drug-Stores, Ltd., Mr. Murison, the managing director, having written to the Chancellor of the Exchequer on the subject.—Ed. *C. & D.*]

Restraint of Trades (Shops) Bill.

The following is the text of the Bill which was introduced in the House of Commons on Friday, June 25, by Mr. J. A. Seddon, M.P., to render null and void certain provisions in shop assistants' agreements. As stated last week, Mr. Seddon has agreed to include commercial travellers within the scope of his measure :

1. Any agreement whereby a person employed in a shop shall be restrained after the termination of such employment from being engaged as servant, assistant, manager, or traveller—wholesale and retail—in any trade or business, either directly or indirectly, shall be null and void in so far as the same imposes or purports to impose such restraint and not otherwise.
2. In this Act the word " shop " shall have the same meaning as in the Shop Hours Act, 1892.
3. This Act shall come into operation on the first day of January one thousand nine hundred and ten.
4. This Act may be cited as the Restraint of Trades (Shops) Act, 1909.

The names on the back of the Bill, in addition to that of the promoter, are Mr. F. E. Smith, Mr. D. J. Shackleton, Mr. Price, Mr. Clement Edwards, Mr. W. T. Wilson, and Mr. A. Henderson.

Drugs in Madras.

In reply to Mr. J. D. Rees, on Tuesday, the Master of Elibank (who has been appointed Under Secretary for India, in succession to Mr. T. R. Buchanan, resigned), stated that the revenue from intoxicating liquors and drugs in the Madras Presidency was £1,169,830, an increase of 24 per cent. The consumption has increased among certain classes of the population to a regrettable extent, and further restrictive measures are necessary, according to the Madras Government.

The Debtors' Committee.

The Select Committee on Imprisonment for Debt, which concluded the taking of evidence at Easter, will shortly meet for the consideration of the draft report of the chairman, Mr. E. H. Pickersgill, M.P. A report by Mr. A. Rendall, another member of the committee, will also be considered at the same time.

Observations and Reflections.

By "Xrayser."

Ten Thousand Entries

in the last half-yearly index! That statement gives some idea of the multifarious complexity of the intellectual outfit of the twentieth-century pharmacist. Did not a West-end chemist allude lately to the ten thousand articles of which his stock consisted? Add these substances to the other ten thousand subjects as matters with which you must become familiar, dear young novice, and allow another ten thousand if you are apprenticed in a country pharmacy. Then remember that out of doors there are ten thousand plants, not ten of which will ever concern you, but you must know how many sepals and things each one of these has so as to classify them correctly. Moreover, in your leisure hours you must acquaint yourself with the British Pharmacopœia, unless you want to be the object of the sympathetic but not the less blistering condolences of the President of the Pharmaceutical Society. Hammered out to this extent, the mental faculties of Pythagoras or Aristotle would have lost their grip. But never mind them. They do not come into the curriculum. Julius Cæsar does, though. I had almost forgotten him. You may expect, however,

A Career of Prosperity

when you have duly mastered and forgotten the fifty thousand items, some few of which you may be asked about at your examinations. It is not necessary to go further than last *C. & D.* for justification of this anticipation. Look at those Birmingham chemists. The King is to visit their city, and the traders generally on the line of route are doing good business, says the Midland correspondent, in letting their windows. But not the pharmacists. They want their windows for themselves and their friends, and the most tempting offers are refused by them. Exhibit No. 2: An attractive prospectus of a new financial investment was published last week, and it happened that the first announcement of it appeared in the *C. & D.* Chemists, we are told, asked for the lot before the rest of the public could get a look in. One more test, and this is a crucial one: Whose hen-roosts did the Chancellor of the Exchequer make for when he found himself short of all those millions? "Ours," cry the landlords, the bankers, the brewers, the whisky-men, and the pharmacists in unison. That is the sort of company we keep.

The 7½ Grams of Radium

to be extracted from Cornish pitchblende in a Brunswick laboratory is a rather humiliating announcement for British chemists, but there may be compensations. The indications we have had of the energy concentrated in each milligram of the element justify almost any wild anticipation of what a quarter of an ounce may be capable of. Presuming the Brunswick factory should survive the process of production, the question of transport will arise, and it may be found that it will not be safe to ship such a cargo in anything weaker than a *Dreadnought*. But even then, if the North Sea should be a little turbulent, the radium emanations may start playing on the steel armour of the conveyance, and only Sir William Ramsay can predict what the consequence may be.

The Popularity of Science

depends on a constant supply of sensational announcements. There are two this week. First Mr. Marconi proposes a wireless service between this country and Australia *viâ* the diameter of the earth. That seems only a natural development of his earlier discoveries. But the famous inventor himself suggests a serious looking difficulty, and gives no indication of the way in which he intends to surmount it. The electric waves, he says, diverge towards the equator, and then begin to converge again. But obviously a station to catch the particular wave that is carrying the message will be necessary in that locality, and one would suppose that it would puzzle even Mr. Marconi to fix one there. The other sensation is a review in "Nature" of an investigation published in a zoological journal, from which it appears that Mr. C. K. Stockhard has found that if the embryos of a certain fish (*Fundulus heteroclitus*) are kept under the influence of a solution of magnesium salts, a large percentage of them develop a single median or cyclopean eye. Like all these physiological experiments, this one is no doubt intended for the benefit of the human race. The moral which it seems to me to suggest is that though fluid magnesia is a useful and safe medicine, young mothers should be cautioned against bathing their babies in it too frequently.

The Excise Instructions

quoted in the first editorial last week are one more manifestation of the intention of the Revenue authorities to administer the Spirit Act of 1743, so far as the concession to "physicians, surgeons, apothecaries, and chemists" is concerned, with strict regard to its exact terms—that is to say, they and no others are to be allowed to supply spirituous preparations to sick, lame, and distempered persons. Hitherto the Commissioners have contented themselves with declaring their determination, and since their first announcement the law has been infringed tens of thousands of times by unqualified vendors of spirit of nitre, paregoric, and a score of other spirituous preparations. The new instructions look like business, and if they are enforced British pharmacy will be at once elevated to the Continental level without any new legislation in respect of the sale of these medicines.

Boots' Cash Chemists (Eastern)

is the only one of the territorially distinguished companies, all associated with Mr. Boot's name, which fully reports its profits. The others pay preference dividends to their shareholders, these shares being offered to the public, but the ordinary or deferred shares are all held by Boot's Pure Drug Co., of Nottingham, which in some cases guarantees the preference dividends, and in all absorbs whatever balance there may be. Even in the case of the "Eastern" company the figures furnished do not provide the opportunity of comparing the results attained by the businesses included in this group, supposed to be the most prosperous of any of the multi-shop drug-companies, with our own. We do not know the proportion of profits to turnover, nor how much "drugs" and how much "gifts" contribute to the total. What we learn is that the 102 shops comprised in the group yield an average net profit of 227*l.* per shop. If, therefore, a private pharmacist owned that average shop, taking himself the place of the salaried manager, and lived, fairly but frugally it may be supposed, on the same amount as that manager's salary, he would find himself at the end of the year with 227*l.* in hand. It is needless to add that from a financial point of view he would have done as well if he only had half that surplus, because the property created would be his own. At present it is added to the company's assets, and is counted as good will.

The Poisons Schedule as amended by the 1908 Act is printed by the *C. & D.* on a card to hang up. The card also contains a supplementary list showing preparations that are covered by the Act. Can be obtained from wholesale houses and the *C. & D.* Office for 4*d.*, or post free 6*d.*

NEW PAMPHLET FOR DISTRIBUTION BY THE TRADE.

WE beg to make known that supplies of this attractively got up publication may now be had upon application, as below.

IT will be a convenience if applicants will in each case state the number required.

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Finest Compound LIQUORICE POWDER	/8 & 1/ lb.	Finest Pure TOILET OATMEAL, SPECIAL	32/cwt.
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BICARB. SODA Finest	15/cwt.	FULLER'S EARTH (In Dredgers)	/1 /2 & /6

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Editorial Comments.

The Government Laboratory.

As is generally known, Customs and Excise officials are in the melting-pot, and consequently things are more or less in a state of flux. Amalgamation of the Customs and Excise Departments, though officially accomplished, is yet far from completion. The diversity of work performed in each Department, and the diversity of interests of the official *personnel*, of traders, and of the Revenue officers are matters demanding the fullest knowledge and the most cautious treatment from the Financial Secretary to the Treasury and his Committee. The magnitude of the task has necessitated a system of devolution, and the formation of two Committees, one to inquire into the laboratories, the other into the outdoor branch. These two bodies have been working simultaneously, and it is expected that the Laboratory Inquiry Committee will finish its labours long before the major body will be in a position to issue its report. Practically the one body is more or less stationary, the other peripatetic. In the one case evidence has been taken at the Government Laboratory; in the other evidence has been sought. Southampton, Plymouth, Exeter, and Bristol have already been visited, and other important ports and places will be included in the itinerary. Perhaps in no Department of the Crown can there be seen such tangible evidence of the growth of what may be called scientific technique than in the two laboratories controlled by the Board of Customs and Excise. Legislation—especially fiscal legislation—has evolved a need which to-day has developed into the right hand of Ministers. Fifty years ago a Chancellor of the Exchequer relied upon the padlock and the cell; to-day a Finance Minister trusts to the

philosophical instrument and the scrutiny of his chemist. This contrast is striking in the two great Revenue Departments mentioned. From a few simple scientific tests, such as the ascertaining of moisture in tobacco or adulterants in tea, the chemical work of both Customs and Excise has developed into one of great magnitude and complexity, and year by year the demands made by legislators demonstrate how vitally important these chemists have become in safeguarding the interests of the national exchequer. It is not surprising that both laboratories have grown in size as well as importance. Somerset House got too small for one; the Custom House has enlarged its space for the other. Each laboratory has "budded," and so got a number of working cells or stations scattered in its "field." In the Excise branch there are eleven of these minor laboratories or chemical-stations, and in the Customs there are nearly a score of testing-stations. In some cases cities like Liverpool, Glasgow, Edinburgh, Bristol, and Belfast contain both Excise chemical-stations and Customs testing-laboratories. To incorporate the two chief laboratories with their "progenies" into one with a common interest, and to have the work performed efficiently and economically, appears to be the aim of this Committee of Inquiry. Evidence has been taken from witnesses representing the interests of the two laboratories, and a lot of light has been thrown on the workings in this particular scientific "field." Men scientifically trained and men untrained are doing chemical work in both branches. The untrained men vary from experienced "outdoor" officials (examiners) to inexperienced youths (assistants). The untrained young men perform such work as original gravities and tobacco-moistures, and of course do not form a part of the chemical staff. Some, if not nearly all, of the testing-laboratories of the Customs are manned by men who are not trained chemists, and who, from their isolated position, are not superintended by qualified men. Seeing that the work performed by these unqualified men is varied, and important to many traders whose pockets are intimately affected by the analytical results of such officials, this system is strongly to be deprecated. A striking contrast in administrative policy is offered in the *personnel* of the Excise chemical-stations, where the chemical officers are all trained chemists, while the chemical officers at similar stations under the Customs authorities are not. The irony of the situation is that, though trained and qualified, the Excisemen do not form part of the Government Laboratory staff. As before explained, these "stations" are scattered over various parts of the United Kingdom, and relieve the principal laboratories of a lot of work, and are a convenience to the merchant in having samples analysed on the spot. In the Excise Department these trained chemists visit various manufacturers' premises in connection with methylated spirit, tobacco, and other taxable goods, and apply their chemical training to the best advantage of the Revenue. It would appear that the two widely divergent policies originated thus: Excise officials in the past obtained Treasury sanction to train more chemists than were actually needed, so that by their increased knowledge they would leaven the outdoor grade. Some of these trained "outdoor" men get appointed ultimately to a chemical station. They are not incorporated in the laboratory staff, but they share the work on less pay. Curiously enough, their untrained colleagues in the Customs testing-stations are not on less, but more, pay. Surely here is work for an Inquiry Committee to undertake in the public, as well as the Revenue, interest. Sir Thomas E. Thorpe, the Principal of the Government Laboratory at Clement's Inn (whom all will congratulate on the honour conferred upon him by the King, and who is leaving to take up his new appointment as Dean of the Imperial College of Technology), is a member of this Committee. Rumour is busy with the names of several distinguished chemists as successors to Sir Thomas as Principal; but it is not beyond the range of possibility that the staff there contains *the* man who can best assist the Government to break down the present close "preserve," to eliminate the unqualified, and to stop the policy of cheapness—a work to which the Committee will doubtless give due consideration.

Drugs in Scotland.

This week the fourteenth Annual Report of the Local Government Board for Scotland, covering the year 1908, has been published. There is comparatively little in it of direct interest to the drug trade, as the report deals chiefly with Poor-law administration and local affairs, incorporating particulars of cases which have come before the Board for its decision in respect to the chargeability falling upon one parish or the other. In this and several other matters of purely parochial interest the report appears to reflect a disposition to create work for permanent officials. The public health portion of the report deals with the precautions that had to be taken in Scotland last year consequent upon the outbreak of cholera in Russia, there being considerable trade between the Baltic and ports in Scotland. Ordinary though these precautions appear to be, they show the remarkable progress which has been made in sanitary science and the notification of infectious diseases since the last serious outbreak of cholera in this country in the 'sixties, and the means which now exist in the public service for detecting and notifying probable carriers of infection from one country to another. This section of the report also deals with small-pox and with cerebro-spinal fever—which was still prevalent in Scotland last year, 522 cases being reported, as compared with 1,859 from February 14 to December 31, 1907. The studies on this disease since it became epidemic in Scotland two years ago have resulted in recording much information which will be of future service. The Board is also attacking the problem of pulmonary phthisis, and is endeavouring, so far as the laws permit, to induce healthier conditions of living among the poorer classes of the population.

The part of the report which is of most direct interest to chemists and druggists is that dealing with the Sale of Food and Drugs Acts, to which the Board "continues to give attention." There is room for much more, we may add. One cannot turn to the abstracts of the reports of public analysts for the year which ended September 30, 1908, without being struck by the blank spaces in regard to certain articles of food. In the course of the year 6,891 samples of food and drugs were examined, besides 1,936 test samples, and the percentage of adulteration was found to be 10.8 on the average, milk showing 12.3 per cent. of adulteration and drugs 12.2. In regard to the latter we note that 38 out of 312 samples were reported to be "adulterated, or not up to standard," including the following:

	Samples Examined.	Adulterated.
Cream of tartar	155	23
Tartaric acid	47	4
Camphorated oil	23	1
Linseed	12	1*
Citric acid	11	1
Sweet spirits of nitre	8	2
Mercury pills...	4	3
Liquorice	4	2
Zinc ointment	4	1

* Of doubtful purity.

Looking more closely into the figures, we find that out of the 38 samples reported against the vendors of nine

only were prosecuted, four were convicted, and the case against one of these four was so trivial that no fine was imposed. This suggests that those employed by local authorities in these matters should be more careful in branding articles as being "adulterated, or not up to standard." Thirty-four misses out of 38 shots is bad practice, yet leaves a mark on the retail vendors, who by being hit at are brought under suspicion. The figures given for test samples are even worse. As regards drugs, 46 out of 212 samples, or 21.7 per cent., were reported "adulterated or not up to standard"—if these results are to be measured by the Courts' findings it is time that Scots public analysts looked to their laurels. The following figures show the analysts' statistics as regards drugs purchased for the purposes of the Act and not as tests :

County and towns of	Samples Examined.	Adulterated.
Aberdeen	19	6
Argyll	0	0
Ayr	20	0
Banff	13	2
Berwick	0	0
Buteshire	1	0
Caithness	4	2
Clackmannan	0	0
Dumbarton	6	3
Dumfries	5	0
Edinburgh	16	2
Elgin	10	4
Fife	15	0
Forfar	33	2
Haddington	4	0
Inverness	19	6
Kincardine	0	0
Kinross	0	0
Kirkcudbright	10	0
Lanark	97	6
Linlithgow	1	0
Nairn	0	0
Orkney	0	0
Peebles	0	0
Perth	1	0
Renfrew	6	0
Ross and Cromarty	14	4
Roxburgh	3	0
Selkirk	0	0
Stirling	14	0
Sutherland	2	1
Wigton	0	0
Zetland	0	0

These figures are a fair indication of the inactivity of the authorities in some counties and how largely the personal enterprise of the public analyst enters into the inspection of drugs where the Acts are not a dead letter. As in England and Wales, the attention of the officials appears to be concentrated upon milk and butter, and of the former 3,533 samples were examined in 1908 and of butter 1,206 samples; or more than two-thirds of the whole number of samples of food and drugs taken. This is due to the fact that rapid methods of analysing milk and butter have been devised, and to the trouble that most other articles give in analysis. From this point of view the administration of the Sale of Food and Drugs Acts in Great Britain is somewhat farcical, and it will remain so as long as local authorities are so inexperienced in chemical matters. The lamentable manner in which these authorities in Scotland are acting under Section 2 of the Poisons and Pharmacy Act is fresh evidence of what we mean.

Analysis of Stomach Contents.

The stomach specialist of to-day is not content with a diagnosis arrived at from symptoms such as had to satisfy his father and his grandfather. These gentlemen were compelled to rely on the condition of the tongue, the absence or presence of nausea and headache, the colour of the vomit or of the fæces, the region of pain, and such characteristic symptoms as the patient might complain of. Nowadays medical science has gone far ahead of this position. It is true that every skilled specialist takes a careful note of all the symptoms, and usually he is able to diagnose an uncomplicated case without further aid. Few cases, however, are uncomplicated, and it would astonish the old-fashioned general practitioner if he could see how frequently his modern, up-to-date brother finds it necessary to seek for further illumination than is to be had from the consideration of the patient's symptoms alone. This by-path of analysis may lead to a fertile field where the pharmacist may find an opportunity for exercising his acquirements, and thus not only benefit himself, but his medical neighbours. Many a general practitioner may be quite competent to pass a stomach tube and extract the gastric contents, who would yet be unable to do anything with them after he had got them, and who, if he could obtain the necessary assistance, would be only too glad to avail himself of the pharmacist's services. In any obscure case of gastric disease, Dr. Herschell says, we require to know—

1. The position of the stomach and its apparent size.
2. The degree of muscular sufficiency of the stomach.
3. The condition of the gastric juice as to quantity and quality.
4. The presence or absence of fermentation.
5. The presence of mucus in excess, and, in certain cases, also blood, pus, bacilli, and fragments of mucous membrane.

The first-named requisite belongs exclusively to the domain of the physician, but in the elucidation of all the others the pharmacist ought to be able to assist the practitioner to a material extent. Without going into detail on the subject we may mention some of the tests in which this service would be appreciated. Take, for instance, the lack of muscular activity in the stomach—or motor insufficiency, as it is sometimes termed. One of the modern tests for ascertaining the degree of this activity is to find out how much water passes out of the stomach in a given time. The test is not only ingenious, but extremely simple. Suppose 100 c.c. of water be introduced into the stomach, and some time after the same quantity of water in which is dissolved a certain percentage of sugar. A portion of the stomach contents is now extracted, and if it is found that the percentage of sugar remains constant, it follows that the quantity of water first ingested has been got rid of. If, however, the stomach contents show that the percentage of sugar has been reduced to one-half, it follows that all the original water must still be in the stomach. This is a test that can be applied by any general practitioner, with the aid of a competent pharmacist, the latter to determine by means of Pavy's solution or some other method the quantity of sugar in the stomach contents. Among other conditions of great diagnostic importance are the following : Is the hydrochloric acid in the gastric juice normal, excessive, or deficient? Are the peptic ferments present in normal condition? The presence or absence of signs of gastritis, or of abnormal fermentation, or of the milk-curdling ferment, or of lactic acid, which, if present, is of grave significance—so grave that one writer remarks that it has "about the same significance, as far as the patient is concerned, as a *post-mortem* diagnosis." For those who wish to pursue the subject further there are various manuals which will furnish all the assistance necessary to carrying out the ordinary methods of analysis, and we may mention Dr. Herschell's "Manual of Intragastric Technique" (Glaisyer, 7*s.* 6*d.*) as suitable for pharmacists.

More about Aconitine.

Professor Ernst Schmidt, of Marburg University, has communicated to the "Archiv der Pharmazie" a paper on

aconitine, part of which is printed in the current issue (3, p. 233). In this part he deals with the formula for the alkaloid, as to which it may be remembered there was a difference between Dunstan and Freund and Beck, the former giving $C_{33}H_{45}NO_{10}$, and the latter workers $C_{34}H_{47}NO_{11}$ or $C_{34}H_{47}NO_{11}$. Schmidt's results with aconitine crystallised from methyl alcohol and melting at 195-196° C., gave figures agreeing with Dr. H. Schulze's formula $C_{33}H_{45}NO_{11}$. The paper is also dealing with the crystallography of aconitine and its salts.

The Benzine Licence.

The efforts of Excise officers to extract from chemists and druggists a crown per annum for the sale of benzine (as "motor-spirit" within the meaning of the Finance Bill) have been nipped in the bud. The Board of Customs and Excise have found it necessary to issue to Excise officers a circular to the effect that the Board will not require chemists to take out a licence for the sale of benzine in small quantities. This is so far satisfactory, but we think there is no reason why Clause 64, Sub-Clause 2, should not be amended as we suggested last week, so as to ensure that the licence will not be required at any future time. A motion to this effect is to be moved when the clause is reached, and we trust the Chancellor of the Exchequer will accept it.

Quinine in Malaria.

At the Medical Congress held in Bombay early in the year, Major Ronald Ross read a paper in which he recommended the combating malaria by, among other things, the regular administration of quinine. Striking confirmation of the value of quinine as a prophylactic for malaria is afforded by a report of the medical officer of the Punjab gaols. This is a carefully prepared document, in which, after giving figures to show that in the Punjab malaria is accountable for illness in 90 per cent. of the population, the report shows that among the prisoners in the gaols malaria can be eliminated by the administration of quinine. From the figures given the medical officer makes the deduction that by taking quinine systematically one can be made "absolutely malaria-proof." The method adopted is to give 15 grains of quinine sulphate every seventh day during at least August, September, October, and November. The report does not favour the suggestions of Major Ronald Ross as to draining away stagnant pools, and the opinion of Colonel Coleman is given to the effect that the practice of placing paraffin on the surface of water as an aid to eliminating malaria "may be relegated to the limbo of exploded theories." There is some diversity of opinion regarding the amount of quinine that should be given for a dose and the frequency of administration, but whatever dose is decided upon it must be given systematically.

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TENERIFFE COCHINEAL.—A British Consular report on the trade of the Canary Islands states that this industry has fallen off to a very considerable extent owing to the decreased demand from European and American markets. During its prosperity inflated prices ruled, and as the results to the producer were very profitable a greatly increased production was obtained, which in subsequent years surpassed the demand, and in consequence prices declined considerably. To enable producers to sell at a profit at the prices ruling for the past few years the cochineal was adulterated with ironsand which still further tended to decrease the demand, as the adulteration resulted in heavy loss in the fabrics that were damaged by the dye. Cochineal, however, is now being exported in a clean condition, and there is hope that with a moderate production remunerative prices may be obtained.

Organic Arsenic Compounds.

A Communication to the International Congress of Applied Chemistry, 1909.

By W. Harrison Martindale, Ph.D., Marburg.

IN this communication I have prepared some notes of a number of organic arsenic compounds, which appeared to me as likely to prove of some therapeutic interest. Many of these bodies I have made on a manufacturing or experimental scale, and in most instances have provided methods of procedure and have pointed out means of overcoming little difficulties encountered. Among other data the melting-points of the substances, where of value, the arsenic contents according to theory and as found practically, the solubilities, and the relative toxicities have received attention.

The literature of the subject has been searched from an early date. Substances of a very complex nature, or of great difficulty to prepare, or those which decompose on keeping or which explode spontaneously, have naturally been ignored for the purpose in view.

Amand Valeur[1] traversed the ground under consideration up to the year 1904. There has, however, been considerable research since that date in regard to organic arsenic, notably during the last two years. In reading one comes across short accounts of methods of manufacture of such substances which are often difficult to follow in practice.

Before proceeding further a few definitions would be useful to clear the ground of certain misconceptions.

ARSONIC ACID indicates arsenic acid, $AsO.(OH)_3$, in which one of the hydroxyls is replaced by an organic radicle. An *arsonate* is a salt of this acid.

ARSINIC ACID constitutes a dialkyl or dialphyl derivative of arsenic acid—*i.e.*, cacodylic acid—and its homologues; *e.g.*, phenyl-arsinic acid, $(C_6H_5)_2AsO.OH$. It should be understood that the French and German chemists do not as a rule make these distinctions.

ARYLARSONATE.—This term is used to indicate an aromatic arsonate. Aryl indicates, *e.g.*, phenyl, tolyl, xylyl, or naphthyl as applied to substituted hydroxyl in arsenic acid.

ARSANILIC ACID is a name given to *p*-aminophenyl arsonic acid, the sodium salt of which is in such repute at the present day.

ARSENOIC.—This term one finds in the French literature as referring to aromatic arsenic bodies containing two atoms of arsenic believed to be coupled together by a double linkage—*e.g.*, $C_6H_5-As=As-C_6H_5$, arsenobenzene, comparable with $C_6H_5-N=N-C_6H_5$, azobenzene.

(i) ALIPHATIC SERIES.

The CACODYLE bodies (of the aliphatic series) are now superseded by better substances from the therapeutic point of view. They need be only briefly outlined:

CACODYLIC ACID, *syn.* DIMETHYL-ARSINIC ACID. $(CH_3)_2AsO.OH$.

Cacodylic acid is prepared by the oxidation of arsenium dimethyl (cacodyle), $As(CH_3)_3$ [better written $(CH_3)_2As-As(CH_3)_2$, as it is more correct to view cacodyle as tetramethyldiarsine and all cacodylates as derived from this diarsine], and of cacodyle oxide, $(CH_3)_4As_2O$.

A portion of Cadet's liquid is surrounded by cold water in a suitable vessel, and mercuric oxide is added in small quantities at a time. The vigorous reaction is further controlled by adding water:

$$[(CH_3)_2As]_2O+2HgO+H_2O=2(CH_3)_2AsO(OH)+2Hg.$$

If the mercuric oxide is in excess, part of the acid forms mercury cacodylate. When the odour of cacodyle has disappeared one adds, drop by drop, cacodyle oxide to reduce the mercury cacodylate. This point is known by the odour becoming perceptible, and by the fact that the solution no longer deposits metal mercury. The liquor is evaporated to dryness and the acid recrystallised from boiling alcohol.

Cacodylic acid is neutral to methyl orange and phenolphthalein. It melts at 200° C., and has an arsenic content

[1] Valeur, *Chimie et Toxicologie de l'Arsenic et de ses Composés.* 1904.

of 54.3 per cent.; solubility, 2 in 1 of water (about) and 1 in 4 of 90-per-cent. alcohol.

Cacodyle is poisonous, but the acid and its salts are comparatively harmless. The latter have, however, fallen into disfavour by reason of this harmlessness—*i.e.*, their stability and lack of arsenical effect. They pass through the system and appear, principally in the urine, in an unaltered condition. Another portion is reduced in passage through the organism to a volatile cacodyle oxide which is exhaled.[2]

Magnesium Cacodylate, $[(CH_3)_2AsO_2]_2Mg?H_2O$. White amorphous powder, *soluble* 1 in 3.

Analysis of this salt gave the following data:

0.885 gram lost 0.068 gram at 100° C.=7.9 per cent. ($[(CH_3)_2AsO_2]Mg,H_2O$=6 per cent. approx.).

0.304 gram dry material yielded 0.254 gram $Mg_2As_2O_7$ =0.12288 gram As, to which had to be added 0.0344 gram As found by titrating the mother-liquor from the ammon-magnes. arsenate solution in which it is soluble, with uranium acetate solution 1 c.c.=0.0053 gram As. Total=51.75 per cent. As (theory demands 50.07 per cent.).

The cacodylates of sodium, iron, and strychnine are well known medicinally, as also guaiacol cacodylate.

Ethyl Cacodylic (*Diethylarsinic*) **Acid,** $(C_2H_5)_2AsO.OH$ and the propyl derivative $(C_3H_7)_2AsO.OH$ have also been prepared.

Di-Sodium Methylarsenate (*syn.* SODIUM MONO-METHYL ARSONATE, ARRHENAL), "New Cacodyle," $CH_3.AsO.(ONa)_2$ (usually given + 1 molecule H_2O). Prepared by the interaction of methyl iodide and sodium arsenate in presence of excess of alkali.

Soluble about 1 in 1 in water, only slightly in alcohol 90 per cent.

Arsenic-content.—(With 1 mol. H_2O)=37.1 per cent.

A solution of the salt (strongly acidified) with H_2S gives a precipitate of mono- and di-sulphide of methylarsine. Arrhenal solutions do not precipitate with baryta water (sodium cacodylate does) nor with magnesia mixture (nor does sodium cacodylate) nor by cold solution of calcium chloride (ditto sodium cacodylate), but are precipitated by nitrates of silver (white silky ppt.; sodium cacodylate none) and mercury (also sodium cacodylate: both yellow, arrhenal the darker of the two). Mercuric chloride, I found, gives a reddish-yellow ppt. with arrhenal, and a white ppt. with sodium cacodylate.

Sodium-*p*-aminophenylarsonate gives a white ppt. with these reagents in every case.

Arrhenal may be estimated by dissolving about 0.2 gram in 1 to 2 c.c. of water and adding 15 to 20 c.c. of hydrochloric and hypophosphorous acid mixture.[3] After twelve hours dilute with 15 to 20 c.c. of water and filter, washing the residue with water. To the filter and its contents add a known excess of N/10 iodine solution, shake well, and titrate excess with sodium thiosulphate—

$$CH_3As+4I+3H_2O=CH_3AsO.(OH)_2+4HI.$$

The black body CH_3As is quantitatively produced from 1 molecule $CH_3AsO.(ONa)_2$, therefore 4 atoms of iodine =1 molecule arrhenal. Bougault[4] suggested this reagent for testing for traces of arsenic in glycerin (arsenite or arsenate) and for cacodylate. For the latter it is exceedingly delicate.

To prepare the test, dissolve 20 grams sodium hypophosphite in 20 c.c. water and add 200 c.c. hydrochloric acid (1.17 sp. gr.). Sodium chloride is thrown out and removed. To apply the test, 5 c.c. glycerin is mixed with 10 c.c. of the reagent. Place in water-bath—brown deposit.

This *Methylarsine*, CH_3As, is also obtainable by action of sodium hypophosphite and sulphuric acid on sodium cacodylate, $2H_3PO_2+AsCH_3O(OH)_2=2H_3PO_3+CH_3As+H_2O$, as a yellow oil insoluble in water, with strong garlic odour. It polymerises to $(CH_3As)n$—probably the same body as made by Bougault by reducing methyl arsonic acid.

Arrhenal is reduced by sulphur dioxide to methylarsenoxide, $AsCH_3O$. The di-sodium derivative of this, $AsCH_3(ONa)_2$, yields with methyl iodide cacodylic acid, which on reduction gives cacodyle oxide, $(CH_3)_4As_2O$, the sodium compound of which, $As(CH_3)_2ONa$, reacts with methyl iodide to form trimethylarsine, $As(CH_3)_3O$—thus arsenious compounds can be made containing one, two, or three methyl groups.[6]

DI-IODOMETHYLARSONIC ACID.[7]

$CHI_2AsO(OH)_2,H_2O$.

May be prepared by oxidising with nitric acid in the cold the body CHI_2AsI_2, a constituent of the dense black oil formed by interaction of 5 parts amorphous arsenic with 42 parts iodoform in presence of benzene or toluene *at water-bath temperature*, otherwise the reaction may be explosive. When the interaction is complete, distil off the solvent. After oxidising, filter off the magma (much charged with iodine), wash it with cold water, and evaporate the acid liquor gently at not exceeding 40°-50°. Yellow crystals throw out containing HI_2O, which should be recrystallised from warm water.

The insoluble portion is treated with boiling benzene or toluene to remove the iodine. The residual yellow powder contains tetra-iodocacodylic acid, which one purifies by dissolving in ammonia and reprecipitating with acid. For oxidising I used strong nitric acid added to the substance with the layer of supernatant toluene. The di-iodomethylarsonic acid was found by analysis to contain 19.9 per cent. arsenic (theory requires 19.2 per cent.).

The data were as follows: 1.147 gram lost at 100° C. 0.048 gram. 0.493 gram dried material yielded 0.181 gram $Mg_2As_2O_7$=0.087568 gram As, to which had to be added 0.0106 gram found in mother-liquor=19.9 per cent.

The following formulæ convey an idea of the interactions:

$$3CHI_3+2As=CHI_2AsI_2+(CHI_2)_2AsI$$
$$CHI_2AsI_2+4HNO_3=CHI_2AsO(OH)_2+4NO_2+H_2O+I_2$$
$$As(CHI_2)_2I+3HNO_3=As(CHI_2)_2O.OH+3NO_2+H_2O+I$$

Sodium Di-iodo-Methyl-Arsonate. $CHI_2AsO.OH.ONa+Aq$. This salt I prepared in feathery crystals in appearance similar to quinine sulphate. The acid was dissolved in alcohol and neutralised with sodium bicarbonate, adding water to aid solution. It is very soluble in water. Analysis gave the following:

0.395 gram lost at 100° 0.034 gram=8.7 per cent. (theory for $1H_2O$=8 per cent.). 0.292 gram of dry substance yielded 0.077 gram $Mg_2As_2O_7$=0.0372526 gram As, to which had to be added 0.0159 gram found in the mother-liquor=18.237 per cent. As (theory for $CHI_2AsO.OH.ONa$=18.1 per cent.).

TETRA-IODOCACODYLIC ACID.

$As(CHI_2)_2O.OH$.

This acid forms small yellow crystals insoluble in water. Analytical data were:

0.364 gram yielded 0.077 gram $Mg_2As_2O_7$=10.2 per cent. As.

0.195 gram yielded 0.043 gram ditto=10.66 per cent. As. (Theory demands 11.7 per cent.)

Sodium Tetra-Iodocacodylate. $(CHI_2)_2.AsO.ONa,6H_2O$. This salt was obtained in beautiful yellowish crystals from the above acid by means of a water-alcohol solution.

Amorphous Arsenic, referred to previously, is very active chemically. It, for example, unites at ordinary temperature with methyl iodide, whereas ordinary powdered arsenic has to be heated to 160°-200° to react with this substance. Similarly chloroform decomposes:

$$3CHCl_3+2As=2AsCl_3+3HCl+3C.$$

This amorphous form of arsenic is made by precipitating a hydrochloric-acid solution of arsenious acid with stannous chloride or a hypophosphite. I found it was best to work in concentrated arsenical solution, adding the hypophosphite in the solid condition in portions and heating the while. I have not employed stannous chloride for the purpose. Assumed reaction:

$$2As_2O_3+3NaH_2PO_2=4As+3NaH_2PO_4.$$

ACETIC ARSENIOUS ANHYDRIDE.[8]

Syn. TRIACETIC ARSENIOUS ANHYDRIDE.

$As(O.CH_3CO)_3$.

Is made by dissolving arsenious acid in acetic anhydride, and is obtainable as colourless needles melting at 82°. Readily soluble in chloroform and ethyl acetate, less in benzene and carbon disulphide. This compound decomposes in moist air. The original paper should be consulted.

(*To be continued.*)

[2] *Zeit. Physiolog. Chem.*, 1906, *49*, 410-432.
[3] Bougault, *J. Pharm.* Chim. 1907 [VI] *26*, 13-20.
[4] Bougault, *J. Pharm. Chim.* [VI] *15*, 1902, 528.
[5] *Compt. Rend.* 1904, *138*, 1705-1707.
[6] Auger, *Compt. Rend.* 1903, *137*, 925-927.
[7] *Comptes Rendus*, 1907, *145*, 808.
[8] *Bull. Soc. Chim.* 1905 [iii], *33*, 1139-1143.

STRENGTHENING.—(A conversation overheard in Shropshire between an eight-year-old young lady and her mother. The girl had been taking the local pharmacist's children's tonic.) Little Girl: "Mamma, is there any more of my medicine left?" Mother: "Yes, dear, one or two doses. I think you had better take them." Little Girl: "I think I will, mamma, because Nellie M——— takes some medicine called cod— something, and it makes her strong, so she punches me ever so hard; and if I take my medicine I shall be strong too, and can punch her hard as well."

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Malayan Citronella Oil.—Mr. B. J. Eaton, Government chemist to the Federated Malay States, reports on a sample of Malayan citronella oil which was derived from the Chenderiang Estate, Perak ("Agric. Bull. of the Straits and Fed. Malay States," 1909, No. 4, p. 142). He considers the oil resembles the Java oil of commerce and, like the latter, exceeds the Ceylon oil in its content of citronellal and geraniol. The Malayan oil is of a pale-yellow colour, and has the characteristic odour of this oil. An examination of the oil resulted as follows: Sp. gr. at 15.5° C., 0.8890; geraniol, 27.7 per cent.; citronellal, 54.7 per cent.; solubility in 80-per-cent. alcohol, 1 in 1 or more volumes.

Horse-chestnut Oil.—According to Hager ("Handbuch") this oil was formerly extracted from horse chestnuts in France and used as a remedy for gout under the names "Antigoutteux Génévoix" and "Huile de Marrons d'Inde de Génévoix," though probably these consisted of the real article adulterated with almond oil. The oil has recently been examined by Stillesen, of Christiania. He finds that the fruit yields to ether from 1.5 to 3 per cent. of a brownish, rather thick oil with an odour recalling that of mustard oil, although on distilling 5,000 to 6,000 grams of the fruit in steam no essential oil could be obtained. The oil has sp. gr. 0.9260 at 15°, refractive index 1.4747, saponification number 194.5, and iodine value 95.4, and appears to consist mainly of olein, with a little linolein and small quantities of stearin and palmitin and a trace of a phytosterol.

Reactions of Physostigmine.—In a recent issue of "Pharmazeutische Zentralhalle" (1909, 375) Reichard publishes a long paper on the colour reactions, etc., of this alkaloid. Perhaps the most characteristic of these are the following: If a small quantity of physostigmine sulphate be placed on a glass slip and just moistened with water, and to the drop of solution so produced a few drops of sulphuric acid are added, the alkaloidal solution remains, for a moment, clearly defined, and then begins to deposit very characteristic crystals of a sparingly soluble sulphate. The preparation becomes oily on standing in the air and eventually resinous, but the crystals retain their characteristic shape and appearance for about ten days. A similar separation of crystals takes place with nitric acid, and, further, the acid, if left in the cold, remains colourless for a day. If potassium chromate be added to either of the above preparations a green mass is formed—at once with the nitric-acid preparation and after a time with the sulphuric-acid one. The alkaloid only slowly and very slightly reduces ammonium molybdate even in presence of sulphuric acid in the cold, but on warming a deep-blue solution is rapidly formed. With titanic acid in sulphuric acid no coloration is given in the cold, but on gently warming a yellowish brown is produced, deepening to reddish brown, then fading away, leaving a colourless liquid.

The Colorimetric Determination of Lead in the presence of iron, with some notes on the preparation of lead-free reagents.—Mr. J. M. Wilkie, in a paper communicated to the Society of Chemical Industry (London Section), shows that the methods at present in use for the colorimetric determination of lead as sulphide are highly inaccurate in the presence of minute traces of iron. The precipitation of lead by ferric hydroxide was found in certain cases to be complete if the ratio of iron to lead exceeded two. This property of ferric hydroxide is of great value in the preparation of lead-free reagents. These sources of error are eliminated and the addition of tartaric acid becomes quite superfluous if the precaution is taken to reduce ferric iron and to ensure that precipitation of ferrous hydroxide takes place within the sphere of action of the potassium cyanide. The mode of working adopted is to reduce with sodium sulphite or thiosulphate in acid solution, to add potassium cyanide directly to the acid solution of the ferrous salt, and then excess of ammonia, and heat gently until colourless. For quantitative conversion to ferrocyanide not less than three to four times the theoretical amount of cyanide can be conveniently used. Sodium thiosulphate has special features as a reducing agent in work of this kind.

Synthetic and Artificial Camphors.—Lohmann ("Berichte Deutsch. Gesell.," 1909, 4, p. 222) states that the only certain test for synthetic camphor used as a substitute for the natural article is the observation of the optical rotation of the suspected product, since all the synthetic camphor so far placed on the market is optically inactive. Much of the synthetic camphor of commerce is a mixture of borneol (or isoborneol), camphene, and camphor. For the detection of these impurities useful indications can be got by fractional sublimation, but the best plan is to acetylate the product and determine the acetyl value as recommended by Schimmel & Co., the crude material being first suitably diluted with turpentine oil. It is suggested that it may also be feasible to melt the material under examination with phthalic anhydride, so converting the borneol into bornyl acid phthalate. The latter, on addition of sodium hydroxide, will be converted into the sodium salt, which will remain in solution while the camphor will remain unattacked and can be shaken out with ether and weighed. "Artificial camphor" (pinene hydrochloride) can be detected quite readily by heating it with excess of caustic soda until all volatile matter has passed off, and then testing the residue for chlorides in the usual way. In the discussion which followed Dr. Stephan (Schering's) stated that synthetic camphor having the same optical activity as the natural article, can be got by applying the Guignard reaction to pinene hydrochloride and oxidising the borneol obtained, but at present this is too dear for an industrial method.

The Spanish Pharmacopoeia.

THE new (seventh) edition describes no fewer than 1,080 preparations, including various popular and new remedies and an extended number of galenicals. The metric system is used throughout. Distinctive and quantitative tests are given wherever possible, and microscopical features are detailed of the more important drugs. The sequence is as follows, taking a chemical product as a type: The title in Spanish, then in Latin, followed by the synonyms, chemical formula, molecular weight, physical properties, tests, means of preserving, therapeutics, dose, and mode of administration. There are also separate dose and atomic-weight tables. The number of alkaloids included has been increased, and many of the newer remedies, such as antipyrin, aristol, betol, bromoform, creolin, dermatol . . . to xeroform. The galenical preparations are fifty anti-French specialities, principally tonic syrups, while other new inclusions are cod-liver oil emulsion, distilled extract of witch-hazel, and Morison's pills. The medicinal waters number twenty-nine, among which are artificial mineral waters, carbonated alkaline, ferruginous, sulphurous, oxygenated, and an ozonated water. Balneotherapy also finds a place in the compendious work. The powders total 54, ointments 28, mixtures 13, pills 11, and tablets 8. Polypharmacy is represented by an electuary with nineteen ingredients, and spt. terebinth. co., with sixteen. Sterilised water, prepared by heating distilled water in an autoclave at 115° to 120° C. for fifteen minutes, is directed to be used in making hypodermic injections, of which there are seven, viz.: apomorphine hydrochloride (1), quinine bromide (10), quinine chloride (1), caffeine (20 and sodium benzoate (20), cocaine hydrochloride (1), ergotine (10) and glycerin (20), ergotine (0.1) and lactic acid (0.2); the figures in parentheses being the percentages of active ingredients. Among the syrups are two containing 0.2 per cent. respectively of belladonna extract and of digitalis extract, and another with 0.05 per cent. of potassio-mercuric iodide. An effervescing lemonade contains 0.3 per cent. of nitric acid, and an invalid drink contains the albumen of four eggs diluted with orange or lemon flavoured water. The four poultices are alkaline, henbane, linseed, and mustard, and the soaps included are medicated, tar, carbolic, and sublimate. In the tinctures a distinction is drawn between aqueous and spirituous preparations. Among the many wines the following are worthy of mention, with the percentages of active constituents: Quinine (5), quinine and iron (5), coca (3), kola (5), condurango (3), pepsin (5), iodo-tannic (2 of iodine in 20 of 95-per-cent. alcohol, added to 2 of tannic acid dissolved in 12 of water, mixed, and Malaga wine to make 1,000). The percentages of medicaments in the gauzes, lints, and wools are as follows: Boric (5), carbolic (5), salicylic (5), iodoform (10), and sublimate (0.1). For six vaginal ovules the following quantities are prescribed: Gelatin 12, water 25, glycerin 88; after solution evaporate to 100 and medicate with one of the following: Tannic acid 0.5, cocaine hydrochloride 0.05, ergotin 0.5, iodoform 0.5. The new Pharmacopœia must prove acceptable after its antiquated predecessor of 1884.

Agri-Horticultural Poisons.

Notices of Application

for licences under Section 2 of the Poisons and Pharmacy Act have been lodged with the local authorities named.

Subscribers and others would oblige us by sending information with reference to applications. Copies of newspapers containing the advertisements of applicants would also be esteemed.

ABERDEENSHIRE.—John Florence, general merchant, Lentush Wartle; Alick Ingram, Sinnahard, Towie; John Cruickshank, Crimond (new applications); John Sim, New Deer, manager, and Alex. Mackie, Fyvie, manager of Messrs. Jas. Mackie & Co., Ltd., general merchants, New Deer; Adam Duthie (A. Duthie & Co., Tarves); J. Murray (A. Duthie & Co., Old Meldrum) (re-advertised applications, see below).

BRENTWOOD.—Dd. Russell & Sons, nurserymen, 32 High Street.

CARLISLE.—Geo. R. Liddell (J. Liddell & Sons) and Wm. Coulson (Oliver & Snowdon)—both agricultural merchants of Haltwhistle, Northumberland.

DUMFRIES.—Alex. McIntosh, grain merchant, Whitesands.

DUMFRIESSHIRE.—Graham F. Macara and Wm. Hastings, Moniaive—grocers.

KELSO.—Jas. McDougal, ironmonger, 7 Wood Market.

MALVERN LINK.—J. H. Marsden, nurseryman.

NORTHUMBERLAND.—Hall & Gibson, Wooler.

RUGBY.—A. E. Townsend, nurseryman, 22 Regent Street.

TWICKENHAM.—Ernest Poupart, nurseryman, Marsh Farm.

Consideration of Applications.

ABERDEEN.—The Public Health Committee of the Town Council received deputations representative of applicants and objectors on June 30. Messrs. Jas. Paterson, W. F. Hay, A. Craig, and J. R. Reith, with Mr. Alex. Blacklaw, solicitor, appeared on the chemists' behalf. Both sides dealt fully with their respective points. After their withdrawal the committee arrived at a unanimous decision in favour of the granting the seedsmen's applications.

ABERDEENSHIRE.—At a meeting of the General Purposes Committee of the County Council on June 25 the Town Clerk stated that thirty-two applications had been received. He also read a letter from Mr. J. Rutherford Hill, representing the Registrar under the Acts, in which it was stated that:

(1) We are anxious that the existing restrictions on the vending of dangerous poisons should be maintained as completely as circumstances permit; and . . . . we desire that the centres for distribution in the county should not be unduly multiplied.

(2) We are anxious that, where the local authority considers a licence ought to be granted, this shall be done in strict conformity with the requirements of the statute.

Regarding the last point, Mr. Hill observed that, although the General Purposes Committee was to "consider and dispose" of all applications, a licence issued by the committee would be invalid. He also reminded the committee that any application by a firm is incompetent.—The Clerk (Mr. W. Murison) suggested that the Council should instruct him to write to the ten firms who had applied, suggesting that they make new applications, and re-advertise in accordance with the regulations. He did not say it was incompetent to grant a licence to a firm, but it would be unwise to do so without first warning them of their risk. This suggestion was adopted.—The committee then received a deputation, consisting of Mr. J. F. Tocher (Peterhead), Mr. John Reith (Cults), and Messrs. W. F. Hay, Andrew Craig, and James Paterson (Aberdeen), on behalf of chemists at Dyce, Ellon, Turriff, and other places. —Mr. James Paterson said that in appearing before the committee they did so without prejudice to their subsequently approaching the full Council if any chemist so desired.—The Clerk, intervening, said that the Council had remitted the applications to the committee for disposal.—Mr. Paterson, continuing, said it was desirable that the whole Council should deal with certain points not mentioned in the Act. For instance, whether poison-licences should not be adjudged, like spirit-licences, by the representative of the particular district prior to coming before the full Council. His main objection was that the Council could not have the same local knowledge.—The Clerk: That is no objection.—In reply to a question by the Clerk, Mr. Paterson said that they did not want to say the committee was incompetent to issues licences, but that they only thought that those interested should be entitled to a full vote of the Council on the question.—The Chairman (Mr. H. D. McCombie): "That may be your opinion, but it is not ours."—Mr. Paterson then dealt with the steps leading up to the recent legislation. He quoted from the Departmental Committee's report for 1902 to show that the alleged grievance was limited to scattered districts without a chemist. Mr. Herbert Samuel, the Home Secretary, and the Privy Council were also quoted in support of the contention that licences were only intended for such districts, while the best light and guidance accordingly interpreted the phrase in Section 2—the reasonable requirements of the public as "in such districts where there is no qualified tradesman within easy reach." Regarding limited companies, Mr. Paterson said the decision of the House of Lords in 1880 placed them outside the scope of the Pharmacy Acts, but the Clerk stated that the Interpretation Act of 1899 made the word "person" include companies.—Mr. Paterson replied that in all the cases under the Pharmacy Act of 1868 the opposite view had been held, and that the Edinburgh firms had re-advertised their applications.—Mr. J. F. Tocher, having supplemented Mr. Paterson's remarks regarding poisons legislation, said the Council's discretionary powers were emphatically conditioned by the imperative terms of Sub-section 2, which are specially repeated in regulation 5 of the Order in Council. In his opinion it was incumbent upon the Council to determine if the local demand was satisfied, and it was their duty to refuse any application if the necessary conditions did not exist. The question was entirely one of the public interest, and chemists appeared there as persons entrusted with the public duty of vending poisons to provide evidence which they alone could furnish. The chemists of Aberdeenshire had been for forty years the only legally recognised retailers of poisonous substances in the county, and they now declared that they had more than sufficient stock of the poisons referred to in Section 2 to satisfy any reasonable local demand. As the licence would be entirely local the Council only need to consider the requirements in the applicants' neighbourhood. Mr. Tocher then refuted the statements regarding the "exorbitant prices" said to be charged by chemists, and that the Act intended to give a preference to seedsmen over all other persons, including chemists. Regarding the contention that there was no danger in selling poison in sealed packages or closed vessels, Mr. Tocher pointed out that it is the "handing out a poison," and not "the mixing or packing" of poison by unqualified persons, that the existing law restricts, the former being the critical action. The reality of the danger was further recognised in stringent regulations applicable to licensees, while experience went to prove that all these so-called precautions which looked sufficient on paper were so extremely difficult to enforce that they almost inevitably became a dead letter, as in the case of the Arsenic Act of 1851. The teaching of experience adopted by Parliament in 1868 was that the best security of public safety in the vending of poisons is the personal qualification of the individual who sells the poison, and only by such means has it been found possible to ensure that all necessary precautions in handing out poisons would be observed. Mr. Tocher concluded by saying that there is no evidence as to a want of facilities of purchasing these dangerous agri-horticultural poisons in Aberdeenshire, as chemists had always, and did now, supply the demands in the North East. There might be one or two isolated spots in remoter districts where purchase was difficult, but there was no call for the enormous numbers of applications the Council had received—there was not such an enormous sale of the specific articles—and the facilities generally were more than ample.—The Chairman said the case was too complex to settle that day, and they would adjourn consideration of the applications until July 9.

ARBROATH.—The Town Council has declined to accede to the chemists' request for a hearing *re* poison-licences.

BLACKBURN.—The Watch Committee has heard the applicant and a deputation from the North-East Lancashire Chemists' Association, consisting of Messrs. Highton, Gifford, Yates, Cutchley, and Openshaw, and a tie in the voting resulted in the matter being deferred.

BROMLEY.—A deputation of chemists, consisting of Messrs. H. D. Kelf, Shillcock and Timmis, attended before the Town Council in committee on June 23 in opposition to the application of Messrs. Weeks & Sons, ironmongers.—Councillor Jones said that the committee blundered in recommending the grant of the first application, as shown by their present recommendation for refusal, which was an indication that they had come to their senses. The matter was again referred back to the committee.

DARLINGTON.—After hearing a deputation of local chemists the Health and Sanitary Committee has recommended the refusal of the applications before them.

DOWN.—The Agricultural Committee of the County Council received letters from the Pharmaceutical Society of Ireland and the Department of Agriculture on June 25, stating that sulphate of copper was not a scheduled poison.—Mr. Alex. Robb stated that he had had a letter from one of the largest druggists in Belfast to say that all their customers had withdrawn orders.—Mr. Drake pointed out that there was no restriction on the sale of non-poisonous dips, but Mr. Hill Dickson said such preparations were not the slightest use. The matter then dropped.

KING'S COUNTY.—Sixteen applications have been received.

PLYMOUTH.—The Watch Committee on June 24 heard six applications, and at the same time received a deputation from

the local Pharmacists' Association, consisting of Messrs. R. F. Roper, C. J. Park, F. W. Hunt, F. A. Spear, F. A. Goodwin, and H. M. Marcoolyn. Messrs. Roper and Park were the spokesmen for the chemists, and subsequently the points raised by the seedsmen were contested by Mr. Park. The resultant voting was a tie, and the matter will accordingly be brought before the next meeting in July.

PRESTON.—The applications of three seedsmen came before the Town Council on June 24.—Dr. Derham, in opposing the Health Committee's recommendation to grant the applications, said the Act was intended for licences to be issued only in isolated districts. Further, it was quite illogical to contend that two or three seedsmen could do what thirty or forty chemists had been unable to do in supplying horticultural poisons. He complained that secret emissaries had been sent round by seedsmen to ask at various chemists' establishments in the town for some out-of-the-way compound, and on not obtaining it to complain that the "reasonable requirements" of horticulturists were not being met. If the chemists had not had much demand in the past it was because the trade had been equally absorbed by persons who had no right to it. If the trade was directed in proper channels it would be very carefully safeguarded.—Dr. Rigg said no one could say the "reasonable requirements" of Preston were not already satisfied through the chemists. Two of the applicants were almost next door to chemists.—Councillor Brocklehurst asserted that various chemists who had been asked for articles which they objected to the nurseryman selling had either suggested a substitute or replied that they "did not stock it" or "would get it on Monday." There was no difficulty in getting poisons from chemists—his errand-boy could buy oxalic acid. He was afraid the chemists of Preston were not actuated so much by consideration for the safety of the public as their own personal gain.—Councillor Oakey deprecated the action of the Chemists' Association in circularising the members of the Council. Four of the signatories to the circular were found to have none of the preparations in stock. —Councillor Rawsthorn opposed the committee's recommendation solely from the public point of view.—The Mayor (Dr. D. W. Brown) said he was of the opinion that up to the present the "reasonable requirements" of the town in this matter had not been met by the chemists.—The committee's recommendation was confirmed.

RETFORD.—The Town Council postponed its decision regarding an application for a month on June 25. The local chemists sent in a petition in which it was pointed out that four chemists sold weed-killers, etc., within sixty yards of the applicants.—The Mayor (Mr. T. L. Hollely, Ph.C.) expressed the opinion that abundant facilities already exist.

Applications Granted.

AYR.—Eight licences issued (*C. & D.*, May 22, p. 801).

BURNLEY.—The Town Council considered an application from Mr. C. H. Holmes, nurseryman, which the Watch Committee recommended for grant.—Councillor Tomlinson, pharmacist, argued that the town's existing needs were already amply met.—Another chemist, Councillor Heaton, strongly objected to the agricultural permit being tacked on to the horticultural licence. The local Association also petitioned the Council.—An amendment by Mr. Tomlinson to refer the matter back to the committee was defeated by twenty-two votes to six.—Councillor Heaton then moved an amendment that the licence be issued for horticultural poisons only.—Alderman J. Thornley said there was really no dividing-line between the preparations, and the committee, on the Town Clerk's recommendation, decided to give Holmes a licence for both. Mr. Holmes did not desire to sell dips. This amendment was also defeated by twenty-one votes to ten, and the committee's recommendation confirmed.

ELGIN.—E. Wiseman, nurseryman, 19-25 New Market. Five other applications came before the Town Council, but none of the applicants had complied with the advertisement regulation.

FALKIRK.—The special committee to which the application of Messrs. David Dow & Son had been remitted for report after receiving a return from Deputy Chief Constable Gordon as to the approximate amount of purchases of agri-horticultural poisons purchased from Falkirk merchants by sheep farmers and gardeners in the eastern division of Stirlingshire (exclusive of Grangemouth), agreed, with one dissentient, to recommend that the application be granted. The recommendation was confirmed by the Town Council.—The Town Clerk, in reply to an amendment that the licence be not granted in the form it was applied for as a firm could not be licensed under the Act, said the Council would make assurance doubly sure by granting the licence to David Dow & Sons and to John M. Dow, the only partner of the firm, by a majority of ten votes to three.

FORFAR.—Wm. D. Irons and A. Ednie—ironmongers: J. R. H. Robbie and James M. Arnot—seedsman. Mr. J. S Gordon, solicitor for the applicants, said all of them had previously vended sheep-dips and weed-killers.—Mr. Ross, solicitor, Dundee, opposed the applications on behalf of the local chemists.

HAWICK.—Geo. Wood, Wilton Hill Nurseries, and John Forbes, 17 Slitrig Street—nurserymen; Wm. Lamb, 54 High Street, and Jas. Scott, 50 High Street—seedsmen; Jas. Paisley (Wm. Paisley & Son), 43 High Street, and Jas. Pringle—ironmongers. Objections had been lodged by Mr. J. Rutherford Hill and the local chemists, but no personal appearance was made on behalf of the objectors. It was stated that every one of the applicants had done business in the specified poisonous substances. The licences were unanimously granted.

KIRRIEMUIR.—Four applications from ironmongers (*C. & D.*, May 15, p. 746) were granted unanimously by the Town Council on June 24. Mr. C. Soutar, solicitor, Dundee, appeared for the objecting chemists, while Mr. J. Ford, chemist and druggist, was also present.

LOUGHBOROUGH.—J. T. Smith, nurseryman, Derby Road and 2 Swan Street.

MIDDLESEX.—Ed. Clayton Ashby, general store keeper, Ashby Stores, Harmondsworth, Yiewsley; P. Chs. Scarborough, seedsman, High Road, Potters Bar; A. Jas. Wood (Wm. Wood & Sons, Ltd.), horticultural sundriesman, North British Wharf, Wood Green.

Applications Refused.

GUILDFORD.—W. Pullen, nurseryman, 17 North Street.

MIDDLESEX.—Jas. J. Foster, nurseryman, Stanmore; Jas. Taplin, seedsman and fruiterer, 154 High Street, Uxbridge; Jas. Ed. Cater, 15 Brent Street, Hendon; E. Bray & Co., Brondesbury Nursery, Cricklewood; D. S. Goulding, 199 High Street, Kilburn—florists. The General Purposes Committee on further considering their recommendation to grant licences which had been referred back by the County Council, state that, having been assured "that the chemists in the neighbourhood of the foregoing premises are prepared to stock the articles dealt with under the Act," they have come to the conclusion that the applications be refused. The three unopposed applications (*see* Applications Granted) were recommended for grant. The Council confirmed the recommendations.

Fees Fixed.

ABERDEENSHIRE.—Licence 5*s.*; renewal 1*s.*

LOUGHBOROUGH.—Licence 10*s.* 6*d.*; renewal 1*s.* 6*d.*

KING'S COUNTY.—Licence 5*s.*; renewal 2*s.* 6*d.*

Interesting Items.

The "Prisons" and Pharmacy Act is the title awarded to the latest Act regulating the sale of poisons in a report of the King's County Council meeting.

At a meeting of the Halifax Chemists' Association on June 24, the poison-licence question was discussed. The President (Mr. H. C. Brierley) read a letter from the Pharmaceutical Society stating that the Society intended later to deal with regular licences.

A predicted outcome of the action of the local authorities of issuing poison-licences in towns is the pushing of the sale of poisons by chemists. An example is seen at Carlisle, where Mr. T. Ridley, pharmacist and "agricultural" chemist, who strenuously opposed the granting of applications in that town, is now devoting the whole of his usual advertising space in the local Press chiefly to dips and weed-killers. Practically all the well-known dips, insecticides, weed-killers, and veterinary remedies are mentioned.

As an illustration of what a chemist may do for himself and his *confrères* we quote the following from a letter of a subscriber in the North of England (84 74), who opposed the granting of five licences in his district. He says: "The applications came before the County Council. I cut out of the *C. & D.* for July 18 last Earl Crewe's speech in the House of Lords, and also drew attention in a letter to the fact that two chemists in the district sell dips and weed-killers within 300 yards of one applicant, and that I kept eight different firms' dips and would supply any other kind if required. The result was only one out of the five was granted—a grocer living about five miles from me—so that I am quite satisfied at the result. The other chemists were neutral in the matter."

BRITISH NORTH BORNEO IMPORTS AND EXPORTS.—Among the imports into British North Borneo during 1908 were the following, the figures in parentheses being those for 1907: Aërated waters, $27 230 ($39,143); damar, $16,102 ($19,908); oils, $41,705 ($53,587); opium, $143,744 ($126,964); perfumery, $7,121 ($7,602); wax, $1,176 ($1,763). The exports included beeswax valued at $4,784 ($12,219); camphor, $32,889 ($32,079); copra, $30,046 ($36,476); cutch, $174,913 ($170,978); damar, $77,989 ($111,007); gambier, $8,025 ($10,191); indiarubber, $67,472 ($112,176); opium, $541 ($1,590); pepper and chillies, $4,584 ($4,895). These comparative figures are taken from the annual report of the British North Borneo Company, and are the earliest available. The values are expressed in Mexican dollars (2*s.* 0½*d.*), but additional interest would be lent to the figures if the actual quantities of exports were given.

Association Affairs.

Brief Records.

Dublin Retail Drug Trade Association.—Following the meeting on May 24 (*C. & D.*, May 29, p. 835), the committee have met several times, and have drawn up the scheme of organisation to be submitted at the general meeting which will be called shortly. The suggested subscription is 5*s*. The possible membership is stated to be 122, and of these eighty-one have already joined. The permanent officers will be also elected at the meeting.

Chemists' Assistants' Association.—At a meeting of the Council of this Association, held at 73 Newman Street, W., on June 10, the following were elected as officers for the coming session: President, F. L. K. Loxley; Vice-Presidents, F. W. Crossley-Holland and E. Thompson; R. H. Brittain; Hon. Treasurer, A. Latreille; Hon. Secretaries (financial) H. Grange, (literary) A. Barbour; auditors, C. Morley and A. B. Makepeace; delegates to the British Pharmaceutical Conference, F. W. Crossley-Holland and G. Tocher.

Edinburgh Juniors The summer meeting of the Edinburgh Chemists', Assistants', and Apprentices' Association was held at 36 York Place, Edinburgh, on Friday, June 25, at 8.30. Mr. E. J. Brown, Ph.C. (President), gave an interesting address, illustrated by a large number of fresh specimens, on "Adaptation in Plant Life." Thereafter Mr. J. Rutherford Hill, Ph.C., gave a practical demonstration on a large number of plants which had been collected by members of the committee. On the motion of Mr. E. O. Rowland, a hearty vote of thanks was awarded to the President and to Mr. Hill.

Lancaster.—A meeting of the Lancaster and District Chemists' Association was held at the King's Arms Hotel on Thursday, June 24, Mr. W. Arkle, President, in the chair. The attendance included Messrs. Angus, Gorst, Jackson, Bate, Shattock (Hon. Secretary), Whinneray, Troughton, Taylor, Maxwell, Simpson, and Parker (Morecambe). Mr. Duckworth (Grange) was elected a member. A long discussion on the increased spirit-duty took place, the general feeling being in favour of an increase of a penny per oz. on spirituous preparations (except perfumery), and the matter was left in the hands of Messrs. Shattock and Jackson to settle details. The administration of the Poisons and Pharmacy Act by the local authorities was severely criticised, and the Secretary was instructed to write to the Pharmaceutical Council, calling for some decisive action to be taken in regard to the gross misinterpretation of the Act in the indiscriminate granting of licences. Mr. Shattock was elected to represent the Association on the Executive Council of the National Chamber of Trade.

Chemists' Defence Association, Ltd.—The annual report of this Association states that 180 new members have joined in the last year, the total membership on June 1, 1909, being 3,633. Legal advice has been given on many subjects, but no large claims for damages have been made during the year. Seven police-court charges have been defended, three being dismissed, one withdrawn, and fines were inflicted in three cases. The directors recommend that the benefits assured to members be increased by adding certain acts to the present list, and also that the Association undertake the whole of the expense of defending members against claims for damages. This necessitates alterations in some of the rules, which the shareholders will be asked to sanction at the annual meeting. The accounts show an excess of income over expenditure of 702*l*. 11*s*. The subscriptions received were 1,769*l*. 5*s*.; interest, 35*l*. 18*s*. 11*d*.; amount received from Employers' Liability Corporation, 35*l*. 18*s*. 11*d*. The expenses include salaries, 249*l*. 8*s*. 2*d*.; legal charges, 146*l*. 7*s*. 7*d*.; claims, 107*l*. 3*s*. 3*d*.; and "Anti-Cutting Record," 220*l*. 7*s*.

Proprietary Articles Trade Association.—The annual report states that 259 firms paid subscriptions in the Manufacturers' Section, an increase of twenty-seven on the previous year. The increase in the number of protected articles is shown by the pages devoted to the list in the "Year-book." These were seventy-eight in 1909, against fifty-four in 1907. The Wholesale Section has twenty-two members, these including practically all the leading wholesale houses in the country. The Retail Section is still growing, there being at the end of 1908 4,201 members, the highest number in the history of the Association, and an increase of 103 on the number for 1907. The condition of the Stop List is stated to be satisfactory, there being but few firms of any importance on the list, with the exception of co-operative societies, many of whom have, however, seen their way to signing the special agreement. The sum of 184*l*. has been expended in dealing with cases of cutting. "Anti-Cutter, London," has been registered as the telegraphic address of the Association. The income of the Association has been 2,577*l*. 5*s*. 4*d*. from subscriptions, donations, and interest, which, with cash in hand and on deposit on January 1, 1908, makes the total receipts of 3,950*l*. 11*s*. 7*d*. The payments include salaries 748*l*. 4*s*. 4*d*. and "Anti-cutting Record" 338*l*. 8*s*. The balance in the bank at the end of the year was 832*l*. 9*s*. 5*d*., while 1,400*l*. is invested in Consols.

Summer Outings.

Bolton Abbey Trip.

A PARTY of twenty-three of the retail apprentices and wholesale employés of Messrs. J. Savage & Co., Ltd., Bradford, with friends, had an enjoyable trip to Bolton Abbey on June 29. Cricket was played, and was followed by tea and a stroll.

By Rail and Launch.

THE ANNUAL OUTING of the Great Yarmouth Pharmaceutical Association took place on June 24. Mr. J. S. Shearman (President) and Messrs. Palmer, Male, W. G. Poll, Davies, Woodcock, Goddard, and Richmond were present. The party entrained at two o'clock for Potter Heigham, where a launch was in readiness to take them on to Coltishall, stopping once *en route* at Horning Ferry. High tea was served at the Anchor Hotel, and the home journey was by rail from Wroxham. It was voted a successful outing.

Woolley's Annual Picnic.

THE ANNUAL PICNIC of the staff of Messrs. James Woolley, Sons & Co., Ltd., Manchester, took place on June 26. The party went by train to Chester, which was reached just after three o'clock. Then followed a river excursion to Eccleston Ferry, during which the beauty of the scenery, with occasional glimpses of the Welsh mountains, excited much admiration. Upon returning to Chester, the Cathedral, St. John's Church, the Rows, and the ancient City walls were visited. Next tea was taken at the City Arms, and several photographs taken of the party. After a further stroll through the old-world streets the return journey was made to Manchester. The weather, although showery, did not interfere with the enjoyment of the outing.

Merry Wincarnis.

THE TWENTY-SECOND ANNUAL OUTING in connection with Messrs. Coleman & Co., Ltd., Wincarnis Works, Norwich, took place last week. About 400 persons were conveyed by train from Thorpe Station to Wroxham, and then by boat to Yarmouth. When the guests arrived at Yarmouth they were conveyed by reserved electric cars to Goode's Hotel, where dinner was served. Mr. J. W. Sewell presided, and among those present were Mr. William Coleman, Mr. W. O. Snelling, and Mr. W. I. Simpson (directors), Mr. W. Rudderham (manager), Mr. W. J. Brackenbury (secretary), and sixteen travelling representatives. The toast of "Prosperity to Coleman & Co., Ltd.," was proposed by Mr. Rudderham, and responded to by the Chairman, while that of "The Founder of the Firm" was replied to by Mr. William Coleman. After dinner the afternoon was spent in various amusements, the guests meeting again at the hotel for tea. The return journey to Norwich was by train.

A Portsmouth Visit.

THE EMPLOYÉS of Messrs. Stevenson & Howell, Ltd., Standard Works, London, S.E., had their annual excursion on June 26. The party left London Bridge Station at an early hour for Portsmouth in very unpromising weather. Before the destination was reached, however, the sun was shining brilliantly, and with the exception of a slight shower in the afternoon the day was fine. Dinner and tea were provided at the Grand Central Hotel. After dinner the usual toasts were given, and a hearty vote of thanks passed to the directors for providing the outing. The dockyard being closed, on account of the King's birthday, the party was unable to visit these famous works, as had been intended. Many members, however, took advantage of the opportunity of inspecting the battleship *Indomitable*, which is anchored in the harbour, deriving much pleasure and instruction from the visit, and returning home in the evening with a greater feeling of security from invasion.

A Clacton Trip.

The Annual Excursion of the senior members of the staff of Messrs. C. J. Hewlett & Son, Ltd., Charlotte Street, London, E.C., took place on June 26, when a party of seventy went to Clacton-on-Sea by an early train. The morning was spent in boating and other amusements, and at 12.30 a substantial dinner was served at the Criterion Hotel. The chair was taken by Mr. Vivian C. Hewlett, Ph.C. (director), supported by Mr. Morris W. Stranack (director). After the usual loyal toasts had been honoured, Mr. P. F. Wilton, the youngest traveller, proposed "Success to the Company," and referred to the high position held by the company in the opinion of medical men. Mr. Vivian Hewlett, in responding, gave some details of the progress made during the last twelve months, especially in regard to the new building now being erected on the company's freehold premises, 83 and 85 Curtain Road, which will give an additional floor space of 30,000 ft. Mr. Stranack also responded. The afternoon was devoted to drives, tea being served on the return to Clacton. At a late hour the party returned to London after a most enjoyable day, which fortunately was quite fine. The general arrangements of the outing were in the hands of Mr. H. Gillard, and were admirably carried out.

Nihil sine Unitate.

This motto, adopted at the inauguration of the Thames Valley Pharmacists' Association, was fully exemplified in the success attending the annual launch trip, which was held on June 30. The Thames Valley Association was joined by the Western Pharmacists' Association and the Croydon Pharmacists' Association. The party, which numbered about 110, included Mrs. Harrington, Mr. and Mrs. Edmund White, Mr. and Mrs. Procter, Mr. and Mrs. Brown, Mr. C. T. and Miss Allen, Mr. and Mrs. Harvey, Mr. and Mrs. Palmer, Messrs. Peake, Evans, and Neathercoat, Mr. and Mrs. Paget Matthews, Mr. and Mrs. Shaw, Mr. and Mrs. Noble, Mr. and Mrs. Dix, Mr. and Mrs. Dickenson, and Mr. and Mrs. Makepeace. The boat left Kingston at 2 p.m. *en route* for Chertsey, where high tea was served. Mr. F. Harvey welcomed the company in a few words, referring to the number of ladies present. Mr. Procter, Mr. Paget Matthews, and Mrs. Harrington replied, the last-mentioned stating it was her "maiden speech." The organisation of the trip was carried out by Mr. Alfred Higgs, J.P., with the assistance of Mr. F. Harvey and Mr. Procter. Light refreshments were served on board by Mrs. Alfred Higgs, with the assistance of Miss Tate and Mr. Leonard Higgs.

Summer Party.

The employés of Messrs. Cadbury Bros., Ltd., Bournville, had their annual gathering on the grounds adjoining the works at Bournville on Wednesday, June 30, and this being the thirtieth anniversary of the removal of the chocolate and cocoa factory from Birmingham to Bournville, the event had special interest, and the programme was in full sympathy with it. In 1879 the firm employed 230 people, including 24 travellers; in ten years the number had increased to 1,193, in 1899 to 2,685, and this year the total is 4,923, including 1,563 men, 2,913 women, and 447 travellers. It seems difficult to understand how the principals could thirty years ago have framed industrial and social programmes fit for thousands of workers upon a basis of two hundred, and that they did, so that Bournville is now one of the world's models for industrial conditions, and the village one of the foremost residential spots on the earth. Wednesday's festivities were a reflection of happy circumstances in the works and the village life in leisure hours. An out-of-doors play, "Sherwood's Queen" (founded on Tennyson's "Foresters," with music by Mr. T. Mee Pattison), was acted in the girls' recreation ground, and there were sports and entertainments in the men's recreation ground from 2.30 to 9.30 p.m., the evolution of the cycle being one of the most elaborate arrangements, no fewer than forty-five pieces being included. Mrs. G. Cadbury distributed, at 8.15 p.m., the prizes to employés for suggestions, and the sports prizes were presented by Mrs. G. Cadbury, jun.

"42."

Once a year it happens that our offices at 42 Cannon Street, E.C., are deserted during a business day by all the staff except caretakers, who remain to explain that the annual outing is taking place that day. This year the day was June 25, and, being jubilee year with us, the muster included the provincial representatives of The Chemist and Druggist and "The Ironmonger," as well as the clerical, editorial, and publishing staffs from 42 Cannon Street, all leaving Paddington at 10.40 a.m. for Maidenhead, where Skindle's Hotel was headquarters for the day. The weather conditions might have been better, but they did not prevent the exposure of several large dry plates when the company had gathered on the lawn of the hotel along with the principals—Sir Walter Vaughan Morgan, Bart., Mr. Septimus Vaughan Morgan, Mr. Edward Vaughan Morgan, Mr. Gwyn Vaughan Morgan, and Mr. Penry Vaughan Morgan. When, at 12.30, all had assembled in the dining-hall for luncheon, each of the eighty odd guests of the firm found in his or her place at the table a strikingly prophetic and thrilling narrative, entitled, "The Invasion of Skindle's," by one Herr Pimpelpunek, whose acquaintance with the characteristics of "forty-twoer" was spread over four chapters of remarkable English, which eight "cuts" made clear. This interference with the luncheon was not serious, and by the time the meal was over and the King toasted all had an attentive ear for Mr. Henry Walker (the *doyen* of 42 Cannon Street), who was down for the toast of "The Firm," which he gave with the rich reminiscence that arises from his work on the *C. & D.* since 1863. The toast was honoured as by those who have a proud history behind them and faith in the days to come. Mr. Penry Vaughan Morgan, who presided, and was supported by his senior partners, was the first to acknowledge the toast, and in so doing he alluded to the fact that although this is the jubilee year of the journals, the firm was really founded fifty-four years ago, when it took over a business that had been established in 1793. As is customary for the chairman on these occasions, Mr. Penry Vaughan Morgan referred to the more important advances and changes in the business during the past year, dropping now and then a word of advice or encouragement. With reference to the jubilee he announced how the firm desired to commemorate it as regards the services of their staffs, and in this connection stated that one member of the staff has been with the firm over forty years, six between thirty and forty years, five between twenty and thirty years, and twenty-one have been in the service between ten and twenty years. In conclusion, he expressed the hope that when the youngest present has finished his life's work and the time has come when he can weigh up all the experiences of his lifetime, he may come to the conclusion that the firm of Morgan Brothers was not the worst of those firms with whom he has been brought into contact. Sir Walter Vaughan Morgan and Mr. Septimus Vaughan Morgan also spoke briefly in acknowledgment of the toast, and with reference to the special event, after which Mr. E. C. Wheeler (Wolverhampton) moved a vote of thanks to the stewards, which Mr. W. Chalmers acknowledged. The afternoon was spent on the river or at Burnham Beeches, and the staffs again assembled at Skindle's for ~~tea, a~~ party of professionals providing a musical entertainment during it and after. It was altogether a memorable day in the history of "42."

Joint Excursion.

The Pharmacists of Aberdeen, who believe in the old adage "that all work and no play makes Jack a dull boy," and who realise the benefits that accrue from a day spent in the country, smiled pleasantly as they walked to the station on Thursday, June 24, to board the 10.5 a.m. train for Banff Bridge. This was the day on which the members of Aberdeen and East Aberdeenshire Pharmaceutical Associations joined together in an excursion. A goodly gathering of ladies and gentlemen were present, and members of the East Aberdeenshire Association joined the party at stations *en route*. Banff Bridge was reached at 11.47 a.m., where the party boarded brakes and were driven, *via* Macduff, to Tarlair, under the guidance of Messrs. McMurtrie, Macduff, and Alexander, jun., Banff. Before arriving at Tarlair the brakes were overtaken by the Peterhead contingent, who had crossed country in a motor-car. Much interest was

manifested in Macduff and Tarlair, the district where Dr. Alexander drew his material for "Johnny Gibb of Gushetneuk." After being photographed by Mr. Osyth, Turriff, the excursionists arrived safely at the Fife Arms Hotel, Banff, where Mr. Chisholm purveyed a splendid luncheon, at which Mr. Robert Leslie (President of the Aberdeen Pharmaceutical Association) presided. Mr. Hay, chemist, Banff, joined the party at luncheon. After this meal Mr. McMurtrie, in the absence of ex-Provost Alexander, welcomed the party, and spoke of the many interesting

The names of the gentlemen are (from left to right): *Back row*, Messrs. Horne, Christie, Pennie, Tocher, McLaren, Hay, and Alexander; *second row*, Messrs. Paterson, Giles (in front), McMurtrie, Milne (Turriff), Simpson, Finlay; *front rows*, Messrs. Leslie, Bruce, Craig, Milne (late of Fetterangus), and G. M. Cruickshank.

associations belonging to the district, and dilated on those of a literary character, particularly recalling the names of Robert Burns, Lord Byron, and Mr. Alexander. Mr. Leslie and Mr. G. M. Cruickshank, Turriff, President of the East Aberdeenshire Association, acknowledged and expressed the pleasure it afforded the company of visiting Banff, and being received in such a cordial manner by their fellow pharmacists. In the afternoon Duff House and grounds, which were recently given to the towns by the Duke of Fife, were visited. A walk through the grounds by the new golf course brought the party to the Bridge of Alvah, where the scene was truly picturesque. On returning to the hotel tea was served at 6 P.M., and after a saunter through the town, Banff Harbour Station was left at 7.55 P.M. and Aberdeen reached at 10.20 P.M. The excursion was a great success, thanks to the "weather clerk" for his splendid behaviour, and to the convener of the excursion committee, Mr. John R. Reith, of Cults.

Advertising Ideas.

PARKIN,
Chemist,
BORROWASH.

A Few Seasonable Articles

KEPT IN STOCK BY YOUR CHEMIST.

PARKIN,
"Pharmacist,"
BORROWASH.

For all the Year round.

PARKIN'S RHEUMATISM, Gout & Kidney PILLS cure Rheumatism, Gout, Lumbago, Sciatica, Kidney Complaints. 9½d., 1/6.

PARKIN'S NEURALGIA & FACE-ACHE CURE. Quick and certain. 1/- per bottle.

PARKIN'S WILD CHERRY ELIXIR cures Coughs, Bronchitis, Lung Complaints. 1/- bottle, 48 doses.

PARKIN—COLD and INFLUENZA MIXTURE, safe, certain, effectual. 1/- per bottle

PARKIN'S LITTLE LIVER PILLS, excellent mild aperient tonic. In bottles, price 8½d.

PARKIN'S "Unique" HAIR BALM, gives splendid results, stops hair falling off, makes hair grow. 1/6.

PARKIN'S "BLOOM OF HEALTH" Tonic Pills restore vigour in Anæmia, General Debility, Depression, etc. Price 1/-

THE above reduced facsimile shows an effective typographical arrangement for a handbill.

Photographic Notes.

(By a Pharmaceutical Camerist.)

Pyro-soda Developer.

MAKE up two solutions according to the following formulæ:

A.

Neutral sulphite solution ...	14 oz.
Pyro (sublimed or cryst.) ...	160 grs.
Water to make	20 oz.

B.

Sodium carbonate	4 oz.
Water to make	20 oz.

For use take equal parts of A and B, and add two parts of water. This developer will produce negatives free from pyro-stain, and four to six minutes' development at normal temperature with full exposure will yield soft negatives full of detail and well suited to enlarging. The advantages of the developer are its cleanliness and the extraordinary keeping qualities of the A solution. When stronger negatives are required the developer can be made up by taking equal parts of A, B, and water, or equal parts of A and B alone can be used, this giving a developer containing 4 grains pyro to the ounce. The mixed solution can be used for several plates in succession if a little extra time is given for development in each case.

Parchment P.O.P.

THE following interesting process was published recently in the "Bulletin of Photography." The idea is to make a printing medium with a parchment surface. Good stock paper is immersed in the following bath:

Sulphuric acid	4 oz.
Water	4 oz.

The paper is put into the liquid, raised quickly, laid on a piece of glass, and all airbells dispersed. The operation is repeated, laying the paper the other way up. After this the paper is plunged into three successive baths of clean water and finally into a bath of weak ammonia. After a few minutes' immersion in the ammonia, the paper is taken out and dried between blotting-paper. The following sensitiser gives prints of a good rich brown:

A (salting solution).

Potassium iodide	20 grains
Cadmium bromide	10 grains
Barium chloride	200 grains
Sugar	200 grains
Camphor-water to	1 pint

This solution is applied with a brush or a piece of cotton-wool, and when thoroughly saturated the paper is dried and the following silver bath applied:

B (sensitiser).

Silver nitrate	200 grains
Citric acid	8 grains
Uranium nitrate	120 grains
Distilled water	4 oz.
Alcohol	½ oz.

Dry quickly and print until the colour resembles that of an undeveloped platinum print. Then develop with the following:

Pyrogallic acid	4 grains
Citric acid	8 grains
Glacial acetic acid	1 dr.
Water	8 oz.

Development is carried rather far, as the image loses considerably in the fixing-bath, made as follows:

Sodium thiosulphate	½ oz.
Water	8 oz.
Alum	2 dr.

Fix for from fifteen to twenty minutes then soak the print in

Alum	50 grains
Water	8 oz.

The length of time the print is allowed to remain in this bath regulates the tone. The print is finally washed for half an hour.

Trade Notes.

"The Prescriber."—Mr. Thomas Stephenson, 157 George Street, Edinburgh, informs us that he has received such a large number of requests for specimen copies of "The Prescriber" that he is not able to deal with them all at once. The copies will be dealt with in rotation.

Shop Fittings.—Messrs. Parnell & Sons, Ltd., shop-fitters, Narrow Wine Street, Bristol, publish several catalogues of shop fittings which well illustrate the versatility of the company in designing shops suitable for carrying various businesses. Separate catalogues deal with weighing apparatus, price tickets, and methods of transporting goods.

"Knoll's Materia Medica" is the title of a publication brought out by Messrs. Knoll & Co., 8 Harp Lane, London, E.C., giving particulars of the special manufactures of the firm. The properties of each remedy are described under the headings chemical, physiological, and indications with specimen prescriptions and a page of clinical notes. It is a useful book for reference.

Developing-table.—Messrs. Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C., have published a card giving the times for development with tabloid developers at various temperatures. It is the card which is sent out to purchasers of Wellcome's "Photographic Diary." Chemists who desire a copy of the developing-table can obtain one by sending a post-card request to Messrs. Burroughs Wellcome & Co.

Woltat Show Cards.—Messrs. Thomas Christy & Co., 4-12 Old Swan Lane, Upper Thames Street, London, E.C., inform us that Dr. Breslauer's "Woltat" foot-shampoo, for which they are sole agents, "is going very well indeed." Still further to stimulate sales Messrs. Christy & Co. are willing to send to all purchasers of the line a striking show-card, which has just been issued, with white lettering on a blue and red background with black ornamentation.

Unguemol.—Messrs. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E., have brought out a new fatty ointment-basis which is miscible with water in all proportions. In appearance and consistency, unguemol, the new basis, is like soft paraffin, but the difference is strikingly shown when a little unguemol and water are rubbed together on the skin. Water or spirituous liquids can be incorporated with unguemol to any extent, the basis can be diluted to the consistence of milk, and can be mixed with all ordinary medicinal agents. Many uses suggest themselves for such a tractable basis. Pharmacists should write for a sample and particulars of this interesting substance.

"Diamond T" Bermuda Arrowroot.—Pharmacists in this country are familiar with the diamond T Bermuda arrowroot, which several generations of the Tucker family have manufactured on their estates in Bermuda and have exported to this country where its reputation is so high with physicians and pharmacists. This particular brand has been scarce lately, none having been exported from Bermuda last year, but Messrs. Robert Tucker and Co., 12, Coleman Street, London, inform us that they have now resumed the supply of the product. The recent crop has not been large, and those who desire to get stock of this favourite brand should obtain it through their wholesale houses as soon as possible, or direct from the sole agents, Messrs. Evans, Gray & Hood, 5 Great Tower Street, London, E.C.

A Good Mirror is an essential in every modern pharmacy, and when there is more than one all the better is it for business. Messrs. Southall Bros. & Barclay, Ltd., of Birmingham, appreciate this, for they are offering to chemists this week a quite handsome one, measuring 20 in. by 15 in., made in bevel-edged plate glass and handsomely framed for 5*s*. We have seen similar mirrors priced at a guinea or more, but S. B. & B. say that each mirror cost them 10*s*., and they give it for 5*s*., because they have on the front the words "Southall's Sanitary Specialities," a phrase which does not interfere with the likeness and will help business in many instances, for Southall's sanitary towels sell themselves when customers know they can get them in the pharmacy. Messrs. Southall Bros. & Barclay are willing to send free to any Chemist and Druggist subscriber a box of sample towels, comprising half a dozen of the various sizes and styles, and a baby's napkin, etc. Besides they have new showcards and other advertising material, and with 5*l*. worth of sanitary specialities they will give one of the fine mirrors for 3*s*. 6*d*. For other particulars see their advertisement in this issue or write to them direct.

Boran Freckle-cream is the registered trade-mark of a freckle remover, to sell at 1*s*., of which Messrs. T. Christy & Co., 4-12 Old Swan Lane, London, E.C., are the agents. The action of yellow unguent is based upon the slight inflammation caused in the outer epidermis by one of the ingredients which allows the other to penetrate the skin and bleach the underlying freckles. Explanatory notices are attached to each tube. It is put up in collapsible tubes with a blue-and-white label, and boxed in dozens. The box forms itself an effective showcase, while an additional showcard is provided to demonstrate the effect before and after use. Messrs. Christy & Co. invite inquiries.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Mr. Temple Franks, Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(From the "Trade-marks Journal," June 16, 1909.)

"Amyderm"; for perfumery, etc. (48). By L. C. Feret 37 Rue du Faubourg Poissonière, Paris. 312,777.

"Tric"; for a hair restorer (48). By Guest & Casey, 89 Girlington Road, Bradford. 312,960.

(From the "Trade-marks Journal," June 23, 1909.)

"Farola"; for chemicals (1). By R. T. Bruce & Co., Sitwell Street, Groves, Hull. 312,572.

"Pulexo," and label device; for a liquid insectifuge (2). By H. B. Penberthy, Fore Street, Sidmouth. 312,704.

"Pergenol"; for a disinfectant (2). By Heinrich Byk, 23 Windscheidstrasse, Berlin-Charlottenburg, 5. 312,895.

"Aspidero"; for a fertiliser (2). By F. Leech, 70 Russell Street, Moss Side, Manchester. 313,003.

"Reducin"; for veterinary chemicals (2). By Reducine Co., 38 South Frederick Street, Dublin. 313,105.

"Haemocithin"; for a medicinal preparation (3). By R. Weiss, 8 Harp Lane, London, E.C. 311,192.

"Sanguisat," and label device; for a medicine (3). By C. Richter & Co., 59-61 New Oxford Street, London, W.C. 311,265.

Star device; for medicinal chemicals (3). By Meister, Lucius & Brüning, Hoechst a. Main, Germany. 311,763.

"Magnesol"; for a medicine (3). By E. C. Exell, 33 Ellesmere Road, Sheffield. 311,952.

"Undinol"; for medicinal chemicals (3). By St. Margrethen Chemical Co., Canton St. Gall, Switzerland 312,807.

"Pegaloids"; for medicinal chemicals (3). By George Brown 139 St. Stephen's Green, W., Dublin. 313,504.

"Osito"; for optical instruments (8). By H. Hughes & Son, Ltd., 59 Fenchurch Street, London, E.C. 312,731.

"Codoiline"; for food substances for animals (42). By Osmond & Son, Ltd., Albion Street, Spalding. 312,862.

"Stanokil"; for a cloth-cleanser (47). By J. Neumeyer, 30 Newgate Street, London, E.C. 311,344.

"Vator"; for a cloth-cleanser (47). By Sandwith & Son 1 High Street, Bracknell, Berks. 311,375.

"Renco"; for a cloth-cleanser (47). By A. Gow and J. Shorthouse, 6 Drylands Road, Crouch End, London, N. 312,036.

"Loxyll"; for all goods (47). By Polysulphin Co., Ltd. 3 Kensington Place, Brislington, Bristol. 312,534.

"Clarisma" and "Noxol"; for all goods (48). By C. A. Stokes, 437 Stapleton Road, Bristol. 313,153-4.

Japanese Laboratory Tests.

THE "Japanese Gazette" of June 10 printed the following semi-official explanation of the grievances as regards the importation of medicinal chemicals into Japan, which were the subject of a question by Mr. T. H. W. Idris, M.P., in the House of Commons recently. We give the semi-official explanation without abbreviation or alteration, it being, apparently, a translation of a document in Japanese:

In connection with a recent question raised in the House of Commons as to the action of the Japanese Customs in dealing with chemicals and medicines imported to Japan, the Japanese authorities concerned explain that they have never rejected imports of chemicals and medicines on insufficient grounds, and that all such goods, in conformity with the provisions of the Pharmacopœia Japonica, No. 3, are permitted. In some cases even those chemicals and medicines slightly falling short of the provisions of the Pharmacopœia are allowed. For instance, it is stipulated that certain drugs must be absolutely free from turbidity, but some drugs very slightly turbid have been allowed to come in. Chlorate of potash Kcl° 3, which once constituted a problem in Japanese pharmaceutical circles, does not satisfy the strict requirements of the Pharmacopœia. Imported goods may deteriorate owing to climatic and other conditions, as pointed out by the *Chemist and Druggist*, in referring to the Parliamentary interpellation, if their wrapping and packing are not adequate. But it is improbable that they will deteriorate if their wrapping and packing are good enough. Foreign complaints are sometimes unwarranted. It was well understood that extract of ergot developing mineral reaction cannot be passed, but a certain importer raised complaints because on the occasion of his goods developing such reaction on examination they were rejected. The case of tannic acid is similar. It is due to the use of mineral pots, not porcelain pots, in big foreign factories, thereby detrimentally affecting the product. It, however, remains true that such goods are not satisfactory. As to formaline, the methods of testing are different according to different countries, and iodine is used for that purpose in some countries. But Japan uses ammonia, and imports to Japan must be in accordance with the requirements of that test.

The Japanese Customs chemists, as styled by Mr. Idris in his Parliamentary question, apparently imply the Hygienic Laboratory, which is treating imports as liberal as possible. The question whether redress cannot be obtained from the Board of Appeal or not may be solved with the abolition of official stamping, which dispenses with such an institution. Although not passed by the Hygienic Laboratory, drugs can be sold in Japan. If they are in conformity with the provisions of the Pharmacopœia Japonica, No. 3, drugs can be sold if bearing the stamp of private pharmacists.

It must, however, be remembered that the Pharmacopœia Japonica shows the minimum standard of medicines. Therefore, unless their quality is above the required minimum, they do not sell well. Excellent chemicals and medicines have not and will never be rejected. It may be well, adds the official explanation, for Mr. Idris and the *Chemist and Druggist* to remember that the sale of medicines cannot be permitted in Japan unless their quality is in conformity with or above the standard shown in the Pharmacopœia Japonica. It will be also well for foreign importers to peruse the revised pharmaceutical regulations of Japan.

Information Wanted.

Inquiries for the names and addresses of manufacturers, or other trade information, not traceable by reference to the advertisement-pages of "The Chemist and Druggist" and the "C. & D Diary," or not filed in our private register, are inserted here free of charge. Postcard or other replies to any of the subjoined inquiries (addressed to the Editor "The Chemist and Druggist," 42 Cannon Street, London, E.C.) will be esteemed.

90/32. Makers of "Sutton's cream of ammonia."

89/62. Present address of the Junon Co., late of 10 Soho Square, London, W.

93/26. Where can non-inflammable transparent sheet celluloid be obtained?

THE Temperance Hotels of Bloomsbury are paying much better than licensed establishments in London, says "The Caterer." For example, shareholders in the Kingsley and Thackeray Hotels have received a dividend of 10 per cent. on the last year's working.—This, we may add, shows that the *C. & D.* chemists help to swell the flood of prosperity.

How to Treat Travellers.

1. Traveller after traveller comes into the shop; the day is far advanced and not a stroke of your regular shop work has been touched. Is it polite or etiquette to tell a man, who you know may have come to the town specially to see you, that you cannot be seen?

2. You are working single-handed. A prescription is brought in and promised for fifteen minutes. Immediately a traveller walks in, and, seeing no customer in the shop, starts to talk and unpack samples. Is it the proper thing to tell the traveller that his presence is inconvenient, or to let the customer wait when the medicine is called for?

THESE questions were put by a Chemist in the *C. & D.*, May 15, and we invited replies, which we are now printing week by week.

The questions raised by "Pestered" appeal to every pharmacist in business on his own account, and especially to those working single-handed. It is a subject on which everyone placed in the above position can enlarge *ad infinitum*. I will therefore deal with the questions.

1. When the full limit of time has been reached in which travellers can be seen, be firm but polite. Do not make an excuse; say that you will be fully occupied for a considerable time, and it is therefore impossible to see him.

2. No traveller has a right to unpack samples in your shop without your permission to view his goods and without asking if it is convenient. As in the case stated it is *not* convenient, it is only necessary to say so. In the ordinary course of business you must keep your promise to your customer, more especially when it is a prescription.—A. T. FOREMAN.

1. See all callers, and listen carefully to a short statement of what they have to show. If no use to you, say so courteously and shake hands. A responsible man will go away, and others you are justified in treating with any necessary degree of firmness. But if there is any prospect of good buying, grudge no time to it. He who does not buy well cannot sell well.

2. Explain politely to the traveller that you are engaged on prescription-work, and ask him to wait or call again. On no account delay customer.—H. C. R.

Probably no other class of individuals meets with so many rebuffs as the commercial. No other individual, therefore, more highly appreciates a courteous reception, and incidentally the person at whose hands he receives it. When his visit occurs at a busy or inconvenient time, place yourself in his position and treat him as you would wish to be treated yourself. A moment's sympathetic reflection will suggest a plan which will be mutually agreeable.—E. THOMPSON (Clapham Park).

(1) If you know that a traveller has come specially to see you, I would endeavour to give him the satisfaction of having seen you and spoken with you, you telling him as courteously as possible whether you can do business with him or not at that moment. If not, no doubt he will ask for an appointment, and keep it. (2) No traveller should start unpacking samples until he has asked permission to do so, and obtained same. Therefore he will wait until such time as you can conveniently talk with him, call again, or "git" if no business to be done.—ALEX. MILNE (Maud).

The Week's Poisonings.

SIX fatalities, including three misadventures, have occurred with poisons during the week. Four platelayers, who drank the contents of a beer-bottle which was found on the railway-line at Tyler's Hill, Canterbury, were taken seriously ill immediately afterwards, and James Jordan, who drank the dregs, died in convulsions within a quarter of an hour. At the inquest it was stated the remaining lees in the bottle contained sufficient strychnine to kill two or three persons. The survivors said the contents of the bottle smelt like beer, but tasted bitter. The bottle bore the customary paper capsule and label.—The jury returned a verdict of death by misadventure at the inquiry into the death of John B. Ashton (37), of Bootle, who was found dead in a hay-loft, with two empty bottles, one of which had contained laudanum and the other a mixture of that narcotic and rum. Deceased purchased 2 oz. of the drug, saying it was for a restive horse, and it is supposed he took it to relieve the pain arising from a diseased liver.—Kate E. Culling (30), the wife of a gamekeeper at Hockwold-cum-Wilton, ended her life by taking salt of lemon.—Jas. Irvine (77) died at Galashiels through drinking liniment which was handed to him by his wife in mistake for his medicine.—Strong ammonia was taken at Unstone by Emily G. Walker (30) for suicidal purposes.—Dr. P. St. Paul, a Bayswater canine-specialist and maker of an "Elixir of life," committed suicide with potassium cyanide.

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C., July 1.

THE last week of the half-year has brought little of interest to the surface, business in several directions having been curtailed as the result of stocktaking operations. "Season" articles, such as citric acid, tartaric acid, and cream of tartar, are exceedingly dull and weak, consumption this year having been very disappointing. Chrysarobin is again offered at lower rates. Values of santonin vary somewhat; but in some quarters an advance is anticipated, although makers are still unable to offer. Glycerin is very firm, the outlook pointing to still higher prices. Copper sulphate is a trifle easier at the principal centre. Japanese potassium iodide continues to be offered at a fraction under that of English. Opium is offered at lower prices from Turkey, but buyers continue to hold off. Russian ergot is firmer, and higher prices are again asked for foreign valerian. Both crude and refined camphor are slow. Much reduced supplies of cinchona will be offered at Amsterdam on July 15. Cochin ginger has been active and dearer, and both pepper and pimento are firmer. Menthol and peppermint oil are quiet. Subjoined are the principal alterations of the week, including those occurring at the auctions of first-hand drugs :

Higher	Firmer	Easier	Lower
Buchu Canary seed Ipecacuanha (Matto Grosso) Valerian	Colocynth Ergot Ginger (Cochin) Linseed Pepper Pimento	Aloes (Cape) Citric acid (foreign) Copper sulphate Sarsaparilla (Grey & Lima) Tartaric acid Wax, bee's (Jam.)	Benzoin (Sumatra) Chrysarobin Opium (Tky.) Rhubarb

Cablegram.

NEW YORK, July 1 :—Business in drugs is dull. Opium is easy at $4.20 per lb. for druggists' by single cases. Jalap is firm at 45c. Peppermint oil is steady at $1.45 per lb. in tins. Cascara sagrada is quiet at 8c. Asafetida is firm at 45c. Hydrastis is easy at $1.80 per lb. Copaiba is also easy at 45c. for Central and South American. Balsam Canada is steady at $7 per gal. Spearmint oil is lower at $2.25 per lb.

ACID, CHRYSOPHANIC, is again lower at from 7*s*. 8*d*. to 7*s*. 9*d*. per lb.

ACID, CITRIC, continues extremely dull, the unseasonable weather having practically cut off all demand at the moment. Prices are easier at 1*s*. 4¼*d*. for English, and 1*s*. 4*d*. for foreign.

ACID, TARTARIC, is easier to the extent of ⅛*d*. to ¼*d*. per lb., English offering at 10½*d*. and foreign at 10*d*.

ANISEED is steady at 19*s*. to 21*s*. per cwt. for common to good Russian.

ARROWROOT.—At auction 120 barrels of St. Vincent were bought in at 2*d*. for fair manufacturing.

CANARY-SEED is again dearer, as the Morocco crop now promises to be very small. On Wednesday fair to good Morocco sold at 52*s*. 6*d*. per quarter, but holders are asking 53*s*. 6*d*. to 55*s*. for further quantity. The British Chamber of Commerce of Turkey, in its quarterly trade journal, states that in spite of the considerable stock still left in Turkey prices have gradually been rising during the last three months owing to the speculative action of holders in Constantinople, most of whom not only are not sellers, but are increasing their stocks in the hope of a rise later on. According to the latest estimate there exists in Turkey an old stock of fully 55,000 sacks, which are in many hands, and it is therefore difficult to ascertain correctly what each holder possesses. Hence the conflicting reports with regard to the quantity still left in Turkey, which is variously estimated at 45,000 and 60,000 sacks. The above figure is, however, as nearly correct as possible. On the other hand, owing to the continued wet weather during the months of February and March, the bulk of the sowings was only put under ground during the first half of April, a date which is naturally somewhat late, and which necessitates a larger rainfall to permit of success. We cannot hope at the best now for over 100,000 sacks. This shortage, coupled with the fact that La Plata's crop was almost nil last year, has greatly contributed in strengthening holders' belief in a sharp rise in the near future, and if we do not have early rains this advance must ensue. This advance has since come about.

CARAWAY-SEED is quiet at 33*s*. 6*d*. to 35*s*. per cwt. for ordinary to good Dutch on the spot.

CHAMOMILES.—New German are offered at 120*s*. c.i.f.

CINCHONA.—The auction to be held at Amsterdam on July 15 amounts to 6,885 packages, comprising 5,488 packages Ledgeriana, hybrid and robusta, 744 cases and 626 bales Succirubra, and 27 cases Sumatra Succirubra. The first-hand stock at Amsterdam on June 24 consisted of 4,505 packages Government and 13,078 packages private bark, or 17,583 packages in all. In the drug-auction 20 bales fair flat Calisaya were held for 1*s*. per lb., 10*d*. being refused, and 20 bales of mixed Crown bark sold at from 4¼*d*. to 4¾*d*. per lb. without reserve.

CLOVES.—At auction no supplies were offered. Privately fair Zanzibar are quoted on the spot at 4½*d*., with business done at from 4⅜*d*. to 4½*d*. To arrive business has been done for October-December and November-January shipment at 4$\frac{11}{32}$*d*., c.i.f. d/w., but for delivery rather better prices have been paid, the sales including 500 bales August-October at 4½*d*., and October-December at 4$\frac{9}{16}$*d*. to 4$\frac{13}{32}$*d*.

COPPER SULPHATE has declined about 10*s*. per ton in Liverpool, prompt delivery offering at 18*l*. 15*s*. per ton, and December-February at 19*l*. 15*s*.

CORIANDER-SEED.—Common Morocco has been sold at 8*s*. 6*d*. per cwt., good quality is offering at 10*s*., and new crop for shipment at 9*s*. 3*d*. c.i.f. terms.

CREAM OF TARTAR.—The demand is extremely small, 98 per cent. powder offering at 72*s*. and 95 per cent. at 70*s*. per cwt.

The total exports from Bordeaux were 1,853 tons in 1908, 2,020 tons in 1907, and 1,562 tons in 1906; to the United Kingdom the exports were 1,624 tons in 1908, 1661 tons in 1907, and 1,369 tons in 1906. The exports of crude tartar from Bordeaux were 1,870 tons in 1908, 3,340 tons in 1907, and 2,984 tons in 1906, their destinations last year being the United States and Germany.

CUMIN-SEED.—A fair quantity of new crop Morocco has arrived, and is being offered at 36*s*. to 40*s*. per cwt. for common to good.

ERGOT.—Hamburg asks an advance of 1*d*., viz. 1*s*. 5*d*. c.i.f. for sound Russian.

FENUGREEK-SEED is scarce on the spot, and the small quantity in stock is held for 10*s*. per cwt. Near shipment is offering at 8*s*. 9*d*. c.i.f. terms, but distant can be bought to arrive at 6*s*. 6*d*. c.i.f.

FRUIT ESSENCES.—A circular has been issued, signed by fourteen of the leading manufacturers of fruit and soluble essences, stating that the large additional spirit-duty of 3*s*. 9*d*. per proof gal., an increase of 34 per cent. (bringing the total duty on proof spirit to 14*s*. 9*d*. per gal. and on 68 o.p. to 24*s*. 9*d*. per gal.) necessitates an immediate additional charge on all essences of 6*d*. per lb. to meet this impost.

GAMBIER.—Further sales of cubes have been made on the spot at 38*s*.

GINGER.—At auction 64 packages of Jamaica were catalogued, but not offered. Privately sales have been made at from 58*s*. to 62*s*. for good to fine; and sales of Cochin include one thousand bags at from 39*s*. to 41*s*. for washed rough as to quality, closing buyers at 42*s*. for good new crop. Calicut D rough has been sold at 36*s*. to 37*s*., and wormy Japan at 28*s*., fair offering at 32*s*. per cwt. Business has been done in Sierra Leone ginger in Liverpool to arrive at 40*s*. in transit, but 42*s*. 6*d*. is now asked.

JALAP.—The exports from Vera Cruz during the fiscal year 1907-8 amounted to 69 tons (2,495*l*.), against 100 tons (3,624*l*.) in 1906-7 and 114 tons (3,682*l*.) in 1905-6.

LINSEED.—New crop Morocco has been sold at 47*s*. per quarter c.i.f., but 48*s*. is now asked. Good clean seed on the spot is worth 50*s*. per quarter.

MENTHOL is quiet, with a slightly easier feeling. On the spot small sales of Kobayashi have been made at 9*s*. per lb., and for July-August shipment there are offers at 9*s*. 1½*d*., and Suzuki at 8*s*. 10½*d*. c.i.f. The fact that several cheap offers have been made from the Continent has somewhat unsettled this market for the moment.

OIL, ANISEED (STAR).—Steady but quiet at 4*s*. 5*d*., and for arrival 4*s*. 2*d*. c.i.f. is quoted.

OIL, BERGAMOT.—According to a Palermo advice the market is steady, the favourable position being maintained; from 16*s*. 6*d*. per lb. c.i.f. London is quoted.

OIL, COD-LIVER.—Our Bergen correspondent writes on June 28 that the Finmarken fishery is now at an end, all the fishermen from the southern places having left, and only the inhabitants still continue the summer fishing. The statistics give the following results:

	1909	1908	1907
Catch of cod (millions) ...	56.5	48.2	47.6
Yield of cod-liver oil (barrels)...	43,500	50,900	40,400
Livers for "raw" oils (hect.)...	27,600	25,600	21,400

On the market there is little business doing. There are some orders at 60*s*., f.o.b. Bergen, for non-congealing Lofoten oil, and for autumn delivery up to 62*s*., f.o.b., is offered, but producers are holding back, and hope for better prices later on. The exports from Bergen up to date amount to 6,383 barrels, against 8,731 barrels at the corresponding date of last year. In the drug-auction 7 casks of Newfoundland sold without reserve at 2*s*. per gal.

OIL, LEMON.—An advice from Palermo, date June 19, states that business has been a little more active, and although large buyers abroad hold back, stating that consumption is slower owing to the cold weather, still, small orders have been coming in rather more freely, causing a hand-to-mouth business. Prices are practically unchanged, with frequent slight fluctuations according to whether there is more or less inquiry, but, as previously mentioned, a somewhat better feeling prevailed; from 3*s*. per lb. c.i.f. is quoted, and on the spot 3*s*. upwards is also quoted for good brands.

OIL, ORANGE.—At primary sources rather more activity has prevailed, and holders feel more hopeful as to the future of this oil. Sweet is quoted 6*s*. 4*d*. and bitter 6*s*. 6*d*. per lb. c.i.f. terms.

OIL, PEPPERMINT.—The market for American in tins is very firm judging by the pretensions of holders on the other side; 6*s*. 3*d*. has been cabled over as being the lowest for a round lot, and an advance is regarded as imminent. Japanese dementholised is quiet, but there is no material change in values, spot being quoted 5*s*. 5*d*.

OIL (TURPENTINE).—American has fluctuated considerably during the week, but on balance closes about 3*d*. higher at 32*s*. 6*d*. spot and 33*s*. 6*d*. for September-December delivery.

OPIUM.—The reports in regard to the Turkey crop continue favourable in all directions, and with offers to sell Smyrna druggists' (10½ per cent.) at 10*s*. 6*d*. for July-August shipment, which is lower, buyers hold aloof, fully believing that prices must come to a much more reasonable level. On the spot small sales of good druggists' have been made at from 12*s*. 3*d*. to 12*s*. 6*d*. Persian, on the other hand, is firm, and sellers are difficult to treat with owing to last week's advance in the China market; on the spot up to 14*s*. has been paid for good in retail lots.

A Smyrna report dated June 25 states that interested holders came forward again this week, but only bought three baskets old extra quality at 12*s*. 2*d*. It is supposed that this is done in order to maintain prices, and as these holders buy from each other the sales are fictitious, as no money changes hands. As regards the new crop, to-day's estimate is as follows: Koniah Vilayet, 2,000 cases; Karahissar districts, 1,900 cases; Boghaditz districts, 500 cases; Aidin Vilayet, 1,500 cases; Constantinople (consisting of Zileh, Tokats, Beybazaar, Angora, Balukissar, etc.), 1,500 cases; Salonica, 1,000 cases, making a total of 8,400 cases. Interested holders' figures are, however, 60 per cent. less. The arrivals in Smyrna to date amount to 95 cases, against 77 cases at same period last year.

Writing on June 26, another Smyrna correspondent states that the sales amount to nine cases, comprising five cases new crop current at 11*s*. 2*d*., three cases old Karahissar at 12*s*. 4*d*., and one case old Yerli at 13*s*. 9*d*. Buyers for America and England have withdrawn in face of the manipulations of speculators, who are attempting to force the market to keep at the prices already ruling and provoke a rise just at the critical moment when purchases are being effected in the interior. The arrivals of the new crops are 95 cases, against 77 last year at the same date, and the prices obtained on the Smyrna market are beneath those ruling in the interior. The crops in some districts, like Alachéir and Sparta, having been damaged, advantage is taken of these isolated cases to spread bad rumours as to the crops, which it is said will only reach 4,000 to 5,000 cases. Account must be taken of the fact that Alachéir and Sparta only yield on an average from 4,000 to 5,000 cases, so that if their output is reduced by half it will have a small effect on the total yield, for districts like Karahissar, Akchéir, etc., have been highly favoured. The general yield allows us to maintain our previous estimation that the crops will not fall below 7,000 to 8,000 cases. Market closed firm.

PEPPER (BLACK).—At auction 21 bags of Gapis were offered and sold at 3¾*d*. for fine and 2½*d*. for light; and of Ceylon 81 bags were bought in. Privately the market is firm. On the spot fair Singapore is quoted at 3⅜*d*., and for July-September shipment 3⅛*d*. has been paid.

PEPPER (WHITE).—At auction no supplies were offered. Privately the market is firm but quiet at 5½*d*. for fair Singapore, and for arrival Singapore for August-October and September-November shipment has been sold at 4 11/16*d*. c.i.f. d/w.

PIMENTO.—At auction 68 bags were catalogued, but not offered. Privately, market is firmer, with sales up to 2½*d*. spot, and for arrival business has been done for August-September shipment at 23*s*. 6*d*. c.i.f., closing sellers at 24*s*. c.i.f.

POTASSIUM IODIDE.—Some fair arrivals have taken place from Japan lately, potassium offering at from 7*s*. 5½*d*. to 7*s*. 6*d*. net, as compared with English at 7*s*. 11*d*., less 5 per cent.

QUININE.—Sales continue quite unimportant, and for consumption only on the basis of 6⅞*d*. to 7*d*. per oz. for German sulphate from second-hands.

SANTONIN.—Small sales have been made at about 13*s*. 9*d*. per lb., but others ask 14*s*. 3*d*. to 14*s*. 6*d*. per lb. Makers are still unable to offer.

SHELLAC is quiet, with a small spot trade on the basis of 67*s*. for fair free TN; and for arrival October-December shipment is quoted 65*s*. sellers. Futures are practically unchanged on the week, August delivery closing 67*s*. value.

TURMERIC.—Privately small sales of Madras have been made at from 18*s*. to 19*s*., and Bengal is unaltered at from 18*s*. to 19*s*. Cochin split bulbs offer at 13*s*. In the drug-auction 6 bags of fair Madras bulbs sold at 15*s*.; fair Madras finger was held for 17*s*. per cwt.

VALERIAN has advanced a further 2*s*. per cwt. to 28*s*. to 29*s*. per cwt. c.i.f. terms.

WAX, JAPAN.—Privately a small business has been done at 44*s*. 6*d*. c.i.f. for July-August shipment, and on the spot good squares are quoted 46*s*. 6*d*. to 47*s*.

WOOD-OIL.—Hankow is quiet, with sellers at 27*s*. per cwt. on the spot and 26*s*. 9*d*. c.i.f. for arrival.

London Drug-auctions.

At the auctions of first-hand drugs to-day a good proportion of the offerings sold, but prices, with few exceptions, were in buyers' favour. Cape aloes was about steady, especially the lower qualities. Sumatra benzoin declined 5*s*. on pressure to sell. Buchu is still scarce. Cardamoms were slightly firmer, and colocynth maintains the recent improvement. Dragon's-

blood quiet, but firm. Jamaica honey only partly sold at about steady rates. Matto Grosso ipecacuanha advanced 2*d.* to 3*d.* per lb., but Cartagena is neglected. Rhubarb is lower and fair quantities are coming forward. Grey Jamaica sarsaparilla sold well at easier rates, and Native ditto was steady. Beeswax was uninteresting, with the exception of Jamaica, which was easier. The following table shows the quantity of goods offered and sold :

	Offered	Sold
Aloes—		
Cape	77	41
Curacao (bxs.)	10	5
Mocha (kegs)	9	0
Ambergris (tins)	2	0
Aniseed (Russ.)	40	20
Annatto-seed	12	0
Araroba	12	0
Balsam (Peru)	1	0
Benzoin—		
Palembang	11	0
Sumatra	160	90
Buchu	2	2
Burdock (cut)	10	0
Calabar beans	2	0
Calumba	40	20
Camphor (Jap. ref.)	4	0
Cannabis indica	7	0
Cardamoms	179	94
Cascara sagrada	39	*39
Cassia fistula	24	13
Castor seed	1	1
Cinchona	40	20
Coca-leaves	18	18
Colocynth	20	20
Copaiba	5	0
Cubebs	5	0
Cuttlefish bone	50	3
Dragon's-blood	4	0
Galls	13	10
Gamboge	3	0
Gentian	30	0
Gum arabic	1	0
Honey (Jamaica)	407	294
Insect flowers	2	0
Ipecacuanha—		
Cartagena	11	1
Ipecacuhana—		
Matto Grosso	11	11
Kino	10	0
Kola	9	2
Lavender flowers	10	10
Myrrh	39	2
Nux vomica	60	0
Oil—		
citronella (Java)	1	1
cod-liver (Newf.)	7	7
eucalyptus	20	0
lemongrass (Java)	1	1
Olibanum	63	7
Opium (Turkey)	1	*1
Quillaia	30	0
Rhubarb (China)	33	16
Sarsaparilla—		
Grey Jamaica	54	54
Lima-Jamaica	10	10
Native Jam.	10	10
Seedlac	80	0
Senna and pods—		
Alex.	18	6
Tinnevelly	15	15
Tamarinds	52	42
Tragacanth	24	24
Turmeric	235	6
Wax (bees')—		
Australian	2	2
East African	63	0
East Indian	43	6
Egyptian	1	1
Jamaica	27	14
Spanish	12	0
West African	2	0
West Indian	1	1
Wax (veg.) (Jap.)	10	0

* Sold privately.

ALOES.—The better grades of Cape were easier inclined, but lower qualities sold at steady rates. Mossel Bay (usual 20-per-cent. tares), good to fine bright hard, realised 31*s.* 6*d.* to 32*s.* 6*d.* ; good seconds, slightly softish and dull, 30*s.* to 31*s.* ; and ordinary dull and drossy, 27*s.* to 29*s.* per cwt. Nine kegs of black soft Mocha in kegs were retired at 75*s.* per cwt. Ten boxes Curaçao offered, of which five sold at 45*s.* for fair liver slightly capey mixed ; 32*s.* 6*d.* was refused for capey.

ANISEED.—Twenty bags in the drug-auction apparently sold at 19*s.* per cwt. subject.

ANNATTO-SEED.—Twelve bags fair Madras were limited at 3¼*d.* per lb.

BALSAM, PERU.—A single case of direct shipment from Acajutla was held at 7*s.* 5*d.*, at which small sales have been made.

BENZOIN.—Several important strings of Sumatra benzoin have been pressed for sale at recent auctions, with the inevitable result of a decline. To-day 74 cases in a line were disposed of at a reduction of 5*s.* per cwt., as compared with the previous auction, 5*l.* 2*s.* 6*d.* to 5*l.* 5*s.* (one lot 5*l.* 7*s.* 6*d.*) being paid for ordinary seconds with small to medium almonds, slightly false packed edges. Two cases out of a lot of 13 consisting of very good Sumatra seconds well and evenly packed, with small to bold almonds, sold at 7*l.* 10*s.* per cwt. being about valuations ; and fourteen cases low crusty and broken Sumatra thirds sold without reserve at from 70*s.* to 73*s.* per cwt.

BUCHU.—Firm. For fair greenish round, one bale only of which was offered, 1*s.* 6*d.* was paid, and a further bale of slightly yellowish and stalky realised 1*s.* 4*d.* per lb. Seven bales were not in time for the sale.

CALABAR-BEANS.—Two bags of fair quality were held for 3½*d.* per lb.

CALUMBA.—Twenty bags small to bold fair washed sold without reserve at 21*s.* per cwt. ; 20 bags of small to bold bright yellow washed were bought in at 36*s.*, a bid of 30*s.* being refused.

CAMPHOR.—In auction 2 cases (¼ oz.) Japanese refined tablets were bought in at 1*s.* 10*d.* Privately there are buyers of 2½-lb. slabs for July-August shipment at 1*s.* 5¼*d.* c.i.f.

CARDAMOMS.—Rather more than half the offerings were sold at firm to dearer prices as follows : Indian from Calicut, bold long pale 2*s.* 8*d.*, bold medium ditto 2*s.* 4*d.*, small and medium ditto 2*s.* to 2*s.* 2*d.*, small palish 1*s.* 6*d.* to 1*s.* 9*d.*, brown and split 1*s.* 4*d.* to 1*s.* 5*d.* Mangalore, fine bold round pale 3*s.* 5*d.*, bold medium ditto 3*s.* 1*d.*, very small ditto 1*s.* 10*d.* to 1*s.* 11*d.*, good seed 1*s.* 8*d.* to 1*s.* 9*d.* Ceylon-Mysore extra bold fine pale 2*s.* 11*d.*, bold long palish to pale 2*s.* 2*d.*, bold and medium palish to pale 1*s.* 8*d.* to 1*s.* 10*d.*, small to bold splits 1*s.* 5*d.* to 1*s.* 8*d.*, bold specky splits 1*s.* 8*d.*, small and medium ditto 1*s.* 5*d.*, brown and split 1*s.* 3*d.*, seed 1*s.* 7*d.* per lb.

CASSIA FISTULA partly sold at from 16*s.* to 17*s.* per cwt. for fair Dominican pod.

COCA-LEAVES.—Eight cases middling brownish Ceylon-Huanuco realised from 5½*d.* to 7*d.* per lb.

COLOCYNTH.—Six cases small to bold fair Turkey apple sold at from 9*d.* to 10½*d.* Six bales good pulp sold at from 7½*d.* to 8*d.*, and 9 casks slightly blocky siftings at 3½*d.* per lb. without reserve.

COPAIBA.—Five cases thin opaque from Bahia were bought in at 1*s.* 10*d.*, a bid of 1*s.* 8*d.* being refused.

CUBEBS.—Five bags genuine slightly stalky were retired at 6*l.* per cwt.

DRAGON'S-BLOOD.—Two cases good reboiled Singapore lump were bought in at 12*l.* 5*s.*, a bid of 11*l.* 10*s.* being refused, and two cases fair partly seedy virgin lump were retired at 9*l.* 5*s.*

GALLS.—Thirteen bags Persian damaged were offered and sold at from 28*s.* to 52*s.* 6*d.* per cwt.

GAMBOGE.—Three cases good bright native picked Siam pipe, slightly blocky, were held for 15*l.*, a bid of 13*l.* 2*s.* 6*d.* being refused.

GUM ARABIC.—A single case of Trieste picked grains was retired at 85*s.*

HONEY.—Jamaica sold at easier rates for good, but common was dearer : Extra white set 34*s.*, fine pale set 31*s.* to 32*s.*, pale set and setting 28*s.* 6*d.* to 30*s.*, palish set 27*s.* to 27*s.* 6*d.*, fair brown set and setting 25*s.* to 26*s.* 6*d.*, ordinary brown set 23*s.* 6*d.* to 24*s.* Palish amber liquid 27*s.* to 29*s.* 6*d.*, ordinary darkish to fair brown liquid 23*s.* to 26*s.* per cwt.

INSECT-FLOWERS.—A bale of fair Dalmatian closed were retired at 175*s.*, and a bale of half-closed at 150*s.* per cwt.

IPECACUANHA.—Matto Grosso was fully 2*d.* to 3*d.* per lb. dearer, eleven bales selling (all that offered) at 5*s.* 4*d.* for common dull wiry, 5*s.* 6*d.* to 5*s.* 7*d.* for ordinary to fair leanish, and 5*s.* 8*d.* to 5*s* 9*d.* for fair bright native picked. Cartagena was neglected, only a bale of pickings finding a buyer at 3*s.* 11*d.* without reserve. Cartagena was held at from 4*s.* 3*d.* to 4*s.* 4*d.* as to quality, and small sales have been made privately at the lower figure.

KINO.—Ten cases slightly blocky and dull from Ceylon were retired at 6*d.* per lb.

KOLA.—A single bag of fair dried Jamaica sold at 1½*d.*, and one of green, part mouldy, at 2¼*d.* per lb.

LAVENDER-FLOWERS.—Ten bags nice bright Belgian sold without reserve at from 18*s.* 6*d.* to 19*s.* per cwt.

MYRRH.—Two cases London hand-picked, consisting of Aden tear, sold at 6*l.* per cwt. without reserve.

OIL, CITRONELLA.—One case of fine Java (geraniol content 81.3 per cent.) sold without reserve at 2*s.* per lb. Ceylon in drums is quoted 1*s.* 0½*d.* on the spot.

OIL, LEMONGRASS.—A sample case of Java (citral percentage 75 per cent.) sold without reserve at 2*d.* per oz. Privately from 2¼*d.* to 2¾*d.* per oz. is quoted for Cochin.

OLIBANUM.—Seven bags siftings sold at 16*s.* per cwt. ; fair small drop was bought in at 32*s.*

QUILLAIA.—Twenty bales of fair were held at 34*s.* per cwt.

RHUBARB.—Easier. Four cases of Shensi small round and trimming root with three-quarters good pinky fracture, with occasionally unsightly pieces here and there, sold cheaply at 1*s.* 8*d.*, and a case of small flat ditto, slightly

roughish, but with three-quarters very good pinky fracture, sold at 1*s.* 7*d.*, these prices being 2*d.* to 3*d.* under valuations. The following sales were without reserve: Nine cases small round horny High-dried with half fair pinky and half-grey and dark fracture sold at 5*d.*, and two cases bold flat High-dried Shensi, slightly wormy, with three-quarters fair pinky fracture at 1*s.* 2*d.* per lb.

SARSAPARILLA.—Genuine grey Jamaica, of which 54 bales offered, met with a brisk demand at slightly easier prices, fair realising 1*s.* 4*d.* and roughish, part mouldy and dark 1*s.* 3*d.* per lb. Good red Native Jamaica and dull red mixed sold at 1*s.*, while for common greyish and yellow 11*d.* was paid. Two bales without reserve sold at 1*s.* 1*d.* for deep red. Lima-Jamaica was also slightly easier, fair selling at 1*s.* 1*d.*, and ordinary rough at 1*s.* per lb.

SENNA.—There were no first-hand offerings to-day. Four bales of small greenish leaf sold at 2¾*d.*, and 10 bales medium and bold greenish at from 5*d.* to 6¼*d.* per lb. Six bales of ordinary darkish Alexandrian pods sold without reserve at from 4¾*d.* to 5*d.* per lb.; fair pale were retired at 7½*d.*

TAMARINDS.—Forty-two barrels dry Antigua in bond sold at 10*s.* per cwt.

WAX, BEES.—Sales to-day were quite unimportant owing to the fact that several parcels were not ready in time, this including 176 Zanzibar and 63 of East Africa. Jamaica was slow and 2*s.* 6*d.* easier, dark to fair mixed selling at from 7*l.* 12*s.* 6*d.* to 7*l.* 15*s.* and good 8*l.* to 8*l.* 2*s.* 6*d.* Two packages good Australian realised 8*l.* 10*s.*, and six cases Bombay 6*l.* 7*s.* 6*d.* per cwt. A bale of fair yellow Egyptian sold at 7*l.* Two cases good bright-yellow West African were held for 6*l.* 15*s.* In Liverpool the sales include Chilian at from 7*l.* to 7*l.* 5*s.* Sierra Leone at 6*l.* 15*s.*, and Gambia at 7*l.* per cwt.

Heavy Chemicals.

There is little that is new to be reported as regards the heavy-chemical market, but the late steadier feeling is well maintained, and, if anything, there is a slight increase in the general all-round demand on both home and export account. Values, too, are well maintained.

ALKALI-PRODUCE.—There is a steady amount of business passing in main products, such as bleaching-powder, caustic soda, ammonia-alkali, and soda-crystals. Saltcake, too, is moving rather better than it was. Prussiates and chlorates are somewhat on the quiet side.

SULPHATE OF AMMONIA.—Just at the moment this market is a shade quieter, but the tone is a steady one, and any possible alteration in values seems more likely to be in an upward direction than downward. The demand for prompt parcels is well up to supplies. Present nearest figures are Beckton prompt, 11*l.* 7*s.* 6*d.*; Beckton terms, 11*l.* to 11*l.* 2*s.* 6*d.*; London, 11*l.* to 11*l.* 2*s.* 6*d.*; Leith, 11*l.* 6*s.* 3*d.* to 11*l.* 7*s.* 6*d.*; Liverpool, 11*l.* 2*s.* 6*d.* to 11*l.* 3*s.* 9*d.*; and Hull, 11*l.* to 11*l.* 2*s.* 6*d.*

BICHROMATES OF POTASH AND SODA are in moderately steady demand. Bichromates of soda, English and Scotch deliveries, 3*d.* per lb., less 5 per cent., and export 2¾*d.* per lb. net f.o.b. Glasgow. Bichromate of potash, English and Scotch deliveries, 3½*d.* per lb., less 5 per cent., and export 3¼*d.* per lb. net f.o.b. Glasgow.

BARIUM-PRODUCTS are steady at late rates and in fair average request. There is no change as regards the mineral carbonate of barytes or witherite, which is still in very scarce supply. Blue fixe, pure precipitated sulphate of barytes in paste form, 6*l.* 15*s.* to 7*l.* 10*s.* per ton in usual casks. Mineral sulphate of barytes varies from 40*s.* to 100*s.* per ton, according to quality, quantity, and package. Chlorate of barium ordinary refined crystals, 7*l.* to 7*l.* 10*s.* per ton. Crude calcined barium sulphide, 70 to 75 per cent., 5*l.* 5*s.* to 5*l.* 17*s.* 6*d.* per ton. Hydrate of barium is rather quieter just now. Purest crystals, 13*l.* 10*s.* to 14*l.* 10*s.* per ton in 6 to 7 cwt. casks, and fused concentrated barium hydrate, 56 to 60 per cent. BaO, sold in 5 to 6 cwt. drums 13*l.* 15*s.* to 15*l.* per ton. Crushed concentrated quality in special drums about 3 cwt. each 30*s.* per ton extra.

Manchester Chemical-market.

June 29.

The holidays in the textile trades have commenced in Lancashire, and with this may be anticipated the usual decline in demand for chemicals, dyestuffs, and drysalteries. Up to the time of writing there has not been much diminution in demand, and, so far as inquiry goes, there is little change in prices to note. Ammonia alkali is very firm, but bleaching-powder is a shade easier. Sulphate of copper is held for full rates, and, owing to the position of the raw metal, there is not much chance of a reduction for some time to come. Potash salts are reported steady. Lead salts continue to rule in sellers' favour. Prussiates of potash and soda are weak. Acetate of lime is firm. White powdered arsenic is weaker. Acids and cream of tartar quiet at late rates. For spot lots of crude glycerin high prices are offering. Coal-tar products rule quiet, with few changes. Sulphate of ammonia is quoted 10*l.* 16*s.* 3*d.* to 10*l.* 17*s.* 6*d.* per ton on rails, Manchester.

Continental Herb and Drug Market.

Paris, June 29.

A small business has been done in a few drugs of the new crop, buyers anticipating easier prices by waiting.

FLOWERS.—Common Chamomiles, after having been held at extraordinarily high prices, in spite of a good crop, are now being offered by Hungarian exporters at the rates of 110*s.* to 100*s.* for best Ph.G. IV. quality. Buyers are still waiting cheaper prices, and little business has been done, mostly for export. It is, however, probable that prices will slowly rise when America and Germany begin to purchase. The Italian and Spanish crops seem to be rather poor, and the exaggerated prices of 70*s.* to 80*s.* c.i.f. are asked for inferior qualities. Best mountain Lavender of fair quality is quoted at 54*s.* Marseilles, and inferior at about 16*s.* Spanish poppy, of second quality, is in fair demand at 70*s.* to 75*s.* c.i.f. French values are 110*s.* to 120*s.* c.i.f. Red Roses are held at 460 fr. Marseilles.

LEAVES.—Belladonna is very scarce; current quality, pure, is obtainable at 36*s.* c.i.f. Centaury, mountain, in bunches, is rising, the new crop being below expectation; last quotations for July shipment were about 54*s.* c.i.f. New Melissa is 45*s.*, and Hyssop at 30*s.* is beginning to arrive. Tunisian marjoram guaranteed genuine quality, is worth 34*s.* 6*d.* c.i.f. on the spot.

ROOTS.—Alkanet of current quality is quoted at 24*s.* c.i.f. and French cut Burdock at 14*s.* Gentian is very quiet and obtainable at 18*s.* to 18*s.* 6*d.* c.i.f. for ton lots. Cut Doggrass of fine quality is quoted 20*s.* f.o.b. Hamburg. Waterdock is 19*s.* 9*d.* c.i.f. terms.

SEEDS.—Black Psillium of good current quality is offered at 56*s.* c.i.f., and Tunisian Linseed is held at 15*s.* in ton lots for July shipment.

The Ionone Patent.

The United States Circuit Court of Appeals has affirmed the decision of the Trial Court in favour of the Haarmann-de Laire-Schaefer Co., of Maywood, N.J., in their action against Van Dyk & Co., of New York, for infringement of the patent-rights of the complainant company covering ionone. The affirmation by the higher Court was without opinion. The decision of the Trial Court held the defendants liable for infringement of the complainants' rights by filling an order for ionone with the defendants' product known as violettan.

Bromine Production in U.S.A.

The United States Geological Survey report for 1908 gives the following table relating to the production of bromine from 1900 to 1908 inclusive:

Year	Lb.	Value.
1900	521,444	$140,790
1901	552,043	157,572
1902	513,893	128,472
1903	598,500	167,580
1904	897,100	269,130
1905	1,192,758	178,914
1906	1,283,250	165,204
1907	1,379,496	195,281
1908	1,055,636	102,344

The bromine industry in the United States is centred in Michigan, Ohio, Pennsylvania, and West Virginia. In 1908 these States produced 1,055,636 lb. of bromine, valued at $102,344, the average price per lb. being less than 10 cents. From this price it is apparent that the conditions in the trade were notably worse than in either 1906 or 1907. The low price at the end of 1907 and at the beginning of 1908, when bromine was sold as low as 10 cents per lb. in carload lots, f.o.b. at the works, is believed to be below the cost of production to the bulk of the manufacturers. The trade has been exceedingly poor, and much of the bromine made remains unsold in the hands of the producers. The low price of bromine enables the bromides to be made very cheaply. The manufacturing cost of bromides is said to be from 5 to 9 cents per lb., exclusive of the bromine. The manufacture of bromide of potassium requires about 0.7 lb. of bromine, while bromide of sodium requires 0.8 lb. of bromine. For several years the bromine market has been an open one, and prices have fluctuated during the last five years, reaching their lowest point in 1908. The continued low price of bromine took away all stimulus to further increase in production in Michigan, where the industry remains confined to the Dow Chemical Co., at Midland and Mount Pleasant, and to the production of small quantities at St. Charles, St. Louis, etc.

CORRESPONDENCE

TO CORRESPONDENTS.—A letter for publication should always be a distinct communication; nothing else should be mixed up with it. Each query—no matter whether legal, dispensing, or general—should stand by itself, and the paper upon which it is written should always be backed with the shop stamp. We do not undertake to reply to queries by post. Write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. Publication of letters does not imply our agreement with them. Letters received after Wednesday morning cannot as a rule be dealt with in the current week's issue.

BUSINESS INFORMATION.—We supply by post (when a stamped and addressed envelope is provided) information as to the makers or agents for articles connected with pharmacy and the chemical and drug trades. Inquiries regarding any articles which cannot be traced are inserted under "Information Wanted."

Sale of Benzine.

SIR,—Acting on your advice, I wrote to Mr. G. A. Hardy, M.P., our local member, last night, stating the case and suggesting an amendment as put by you on p. 980, *C. & D.* He has replied as follows:

House of Commons,
26/6/09.

Dear Mr. Wilson,—Your suggestion is a splendid one. I will put an amendment down on Monday to that effect, as well as speaking to the Chancellor on the point.

I am, faithfully yours,
(Signed) G. A. HARDY.

I hope other chemists have acted similarly.

Yours truly,
Stowmarket, June 26. F. M. WILSON.

Mr. William Cummings, of Dundee, as Hon. Secretary of the Forfarshire and District Chemists' Association, has forwarded the following letter to Mr. Winston Churchill, the member for Dundee:

Finance Bill, Section 64, Subsection (2).

Sir,—Benzine being now classed as motor spirit, the effect of this clause is to compel retail chemists who sell benzine in small bottles for home use as grease and stain remover to hold a licence and pay Excise duty of 5*s.* per annum. I wish to suggest for your consideration an amendment of the subsection referred to by introducing after the words "dealer in motor spirit," these words: "Except retailers whose sales do not exceed one pint a day to one person." I trust you will agree that chemists whose sales are limited to small quantities of benzine should not have this additional Excise duty imposed on them.—I am, etc.

Poison Licences.

"Mr. Gladstone was understood to add that neither the Privy Council nor the Home Office are entitled to determine the matter."

SIR,—Thus the *C. & D.* reports in the issue of June 26 the Home Secretary's reply to Mr. Philip Snowden's question in the House last Thursday as to what are "reasonable facilities." Might I ask, Sir, Who is entitled to determine the matter? We know what the spirit of the section is, if the letter is not clear, because Lord Crewe told us in Committee that:

> Obviously where there were qualified chemists practising as such and were selling these things, licences would not be granted.

In the face of that statement of a responsible Minister can the Privy Council not determine it, or are we to be left solely in the hands of those who will grant licences, as in one case, because the fees paid "would add to the revenue of the country," irrespective of the spirit of the Act altogether; or in the hands of men who argue that "we can't refuse Mr. Blank a licence because he is our good friend, or ex-Mayor, or ex-Chairman"? This also irrespective of the spirit of the Act. Can this not be determined? Have we reached an *impasse*? Well, Sir, the *C. & D.* in times past has come to the rescue. Would it be asking too much if you would invite, through the columns of the *C. & D.*, secretaries of local associations (or subscribers where an association does not exist) to forward you from their respective districts a list of (1) applicants for licences, (2) number of licences granted and refused, and (3) number of chemists selling Section 2 poisons in the places where licences have been granted? If these were tabulated and sent to the Privy Council or handed to the Home Secretary (who wished for information on the subject) it would show at a glance how the Act is being administered. We are only asking for justice, and I hope that justice we shall be able to obtain. Yours, etc.,

SIGMA. (92/9.)

SIR,—Does Mr. Gladstone's reply to Mr. Snowden (quoted in *C. & D.*, p. 975) mean that no control can be exercised over local authorities who misuse their power under the new Act? If this be so, the sooner an amending Act is passed the better. If the Pharmaceutical Council in 1880 had been alive to the situation and introduced a Bill (one clause would have been enough) the shortcoming of the 1868 Act would have been repaired. A short Act, to come into force next April, to provide that no licence under the 1908 Act shall be renewed where a chemist is actually dealing in these poisons and was so at the time of the passing of that Act. If the apathy so marked twenty-nine years ago be repeated now, the effect on the membership of the Society will be deplorable.

WIDE AWAKE. (89/56.)

Smyrna Opium Stocks.

SIR,—There appears to be great diversity of opinion existing in Smyrna as to the quantity of opium in stock held by the banks and others. I read in your issue of June 12 (p. 923) that the stock as given by one of your Smyrna correspondents on June 5 is 1,085 cases, but I beg to state that the stock on that date was only 480 cases, from which must be deducted the sales (70 cases) during the two weeks following, leaving a balance on June 18 of 410 cases. This is allocated as follows: Bank of Salonica, 70 cases; Crédit Lyonnais, 25 cases; Bank of Athens, 117 cases; Ottoman Bank, 21 cases; merchants and bankers, 177 cases—total, 410 cases. This leaves a difference of 600 cases to be accounted for, and if your correspondent can show where the remainder is deposited or to be found I shall be glad.

Yours faithfully,
Smyrna. OPIUM EXPORTER. (85/11.)

Dalmatian Insect-flowers.

SIR,—We have noted your quotations for insect-flowers and the further advances in price just recently, which reduces a fairly remunerative article of commerce and the interest of traders in it to vanishing-point. The growers loudly proclaim the shortage of supplies, but the weather clerk has met that—not but that the writer considers the game of bluff is being played on the other side—by a counter-stroke of exceptionally bad weather and the consequent falling-off in demands. Those who buy the flowers in anything like quantity would do wisely to let the Trieste houses quote for all they are worth till they are tired of it; then, with stocks accumulating, their bubble will burst, and, as in the past, they and their agents with reasonable prices will be tumbling over one another in their eagerness to get a share of the English trade. This has been an old experience of yours truly, PYRETHRUM. (90/38.)

The Supply of Citric Materials.

SIR,—The objects of the Camera Agrumaria were so fully and fairly explained in THE CHEMIST AND DRUGGIST at the time of its formation that buyers of citric materials are familiar with them, but I, as director of the Institution, feel it necessary to crave space in your columns to controvert statements which appeared in the "Chemiker Zeitung" of May 27.

The purpose of the Camera Agrumaria is only to regulate the market for citrus products, in the interest of producers as well as in that of consumers of the same. The manufacturers of citric acid ought to have looked with satisfaction upon this useful institution, which secures them a stable price, under which the raw materials cannot be bought during the campaign, thus avoiding heavy fluctuations provoked by speculation, which very often in the past

caused them very heavy losses. The article in the German paper has evidently been written for the purpose of checking the demand for raw materials, and to discourage manufacturers and buyers of citric acid by making them believe that a reduction in the price which the Camera are obliged to fix on August 15 for the next campaign is possible. In fact, the law stipulates by Article 5 and by Article 11 of the Regulation that the Camera Agrumaria have to fix by that date the minimum price for the next campaign, under which the Camera cannot sell the goods which will have been consigned to them for sale; but this does not imply that on August 15 the actual selling-price must be reduced whenever the Camera Agrumaria should think it proper to fix a lower price than the actual for citrate of lime and concentrated lemon-juice to be produced in 1910. The new price would come into full force after all citrate and lemon and bergamot juices of the previous production have been sold; nor could it be done otherwise, because the Camera Agrumaria, according to the above-mentioned article of the law, have guaranteed to depositors for the present campaign for all their produce deposited with the Camera Agrumaria the minimum price of 157.50 L., and advanced two-thirds of this value, releasing, besides, a bond for the remaining one-third, always on the basis of the same guaranteed minimum price. These bonds are shares, payable to holders, which depositors can transfer to third parties, constituting a liability to the Camera Agrumaria of paying, after accomplished sales, to holders of bonds, one-third of the annual guaranteed bottom price of 157.50 L., less 2 per cent. commission, interest at 4½ per cent. per annum, and other petty expenses.

Taking into consideration these engagements which the Camera Agrumaria has taken, it is easy to understand that the Camera cannot, at all events, reduce the price of the year, which always will rule until the products in hand are totally sold out. Therefore manufacturers, as well as consumers, of citric acid may make themselves easy about their purchases, for prices must necessarily remain unchanged during the whole campaign.

This year's production cannot be greater than last year's; indeed, it is expected to be smaller. Moreover, exports have been limited, as shown by the following details:

		1906	1907	1908	1909
January	Tons	456	607	457	140
February	,,	694	930	472	434
March	,,	910	778	524	138
April	,,	810	1,014	371	372
May	,,	285	533	805	168
		3,155	3,862	2,629	1,252
Average price of the year	L.	182.13	219.18	139	163

As seen by the above statistics, exports during the last five months have been sensibly smaller than those of preceding years, but are quite explained by the purchases of foreign manufacturers of citric acid in September-October last, before the law of the Camera Agrumaria came into force. The slackened exports should not be attributed to the price fixed by the Camera Agrumaria, for, as resulting from the annual average, the same is sensibly lower than those of 1906-7, whereas exports, notwithstanding higher prices, were much more important. Intermediators have availed themselves of every possible means in order to harass and check the Camera Agrumaria, spreading insidious reports against same; but manufacturers of citric acid should be convinced that it will be a favourable condition, knowing that, buying raw materials at the price fixed by the Camera Agrumaria, they are not exposed to possible losses which may arise from the lowering of prices later.

The Camera Agrumaria are very anxious to attend to the interest of producers with quite the same care and the same impartiality as to that of manufacturers of citric acid, and are studying the means by which the law may prove profitable to all. They will, no doubt, secure this purpose, regulating also prices of oil of lemon, which actually is sold at a lower figure than the cost of production, on account of citrate, which has to pay manufacturers' loss on oil. Prices of oil of lemon can be raised in the right way, lowering those of citrate, because it is between oil and citrate that the producer gets a price equitably remunerative for his fruit. But Rome was not built in a day, and time must be given until the laws prove profitable and effect the purpose for which they have been made.

Yours faithfully,

Joseph Scanianone,
Director of the Camera Agrumaria.

Palermo, June 22.

Youthful Pessimism.

Sir,—Can any of my brother chips tell me what is wrong with the trade, generally? What is this utter rottenness due to? for that seems to me to be the word for the condition. Some three years ago I determined to go into business on my own account, and during that period my advertisements in the *C. & D.* have brought me the particulars of quite a hundred "genuine" and "can be doubled" businesses; fully 75 per cent. are selling on account of "poor health" (the puny delicate wife usually), "going abroad" or "I would not sell," and when looked into as a matter of fact, the owners would shake hands with themselves when fate and a few "terminological inexactitudes" convert these precious concerns into cash. After passing the Minor, no matter what finances or ability one may possess, all seems to be utterly thrown away—time, money, energy, spent for nought, which might have been employed to advantage. I am inclined to believe the fault lies with the chemist himself—with his business inability and the unbusinesslike manner in which he meets local competition, or with the "play at shop" methods he adopts in not fitting in with his peculiar requirements and surroundings, while fondly imagining that when he was qualified by law, the Pharmaceutical Society was ever afterwards under a direct obligation to protect him against his more shrewd and enterprising neighbours, the grocer or unqualified "drug-stores." I am debating in my own mind what to do; under the circumstances, is the game worth waiting? or is it policy to throw up the sponge at once? Judging from the columns of the *C. & D.* Supplement there are many in a similar position to myself to whom any suggestions would be welcome. Vigilant. (91/48.)

[Twice this week we have been told by men of thirty-five and fifty-five years' experience that the retail drug-trade is better to-day than it was in their early days in yielding a larger income, but they have to work harder and take smaller profits. The very conditions which our correspondent describes provide opportunities for young men who are willing to work and to put their skill and knowledge in the business along with business ability and personal energy.—Editor *C. & D.*]

Dispensing Charges.

Sir,—The following dispensing query as to price may amuse your readers:

One Saturday, at 11 A.M., I received a prescription from a West-end specialist for 1 oz. of lotion (Blank & Co.). I 'phoned for this to the firm, but getting no reply (as the operator said the telephone might be out of order), I 'phoned three other houses, but failed to obtain it, so sent a special messenger to town—to Blank & Co.'s premises. Result: Closed for "board-meeting." I 'phoned the doctor, who said, "Send special messenger, and I will supply, and you can return it." Sent for it. On Monday 'phoned for the smallest quantity supplied; found it to be 1½ lb., cost 2*s.* 9*d.* Returned doctor his loaned supply. Costs to us were: Fares, 'phones, and postages, 2*s.* 3*d.*; 1½ lb. of lotion, 2*s.* 9*d.*—total, 5*s.*

The question is, What can we charge for 1 oz. of the lotion?

Yours truly,

Earl's Court, W., June 29. Frank Tupholme.

Legal Queries.

Before submitting questions for reply in this section please refer to the "C. & D. Diary, 1909" for the following subjects: Income-tax, p. 220; Pharmacy Law and Poisons, p. 216; (abroad) p. 211; Spirit Laws, p. 229; Stamped Medicines, p. 221; Trade-marks, p. 194; Wines, Sale of, p. 231; and Legal matters generally, p. 233.

M. G. R. (91/46).—Patenting is substantially the only means for protecting the article.

W. P. K. (89/49).—We consider that if unqualified persons use the words "special" or "speciality" in connection with dental practice they court litigation.

H. S. (90/4).—Your three questions require only one reply. The preparation which you describe is an exciseable wine, and you require a wine-licence before you can do what you propose.

Read the *C. & D. Diary*, p. 229 (5) and p. 231 (20), which explain the law of the matter.

Venet (88/57). (1) Members of the Pharmaceutical Council who reside in the country get their railway fares paid when they visit London on the Society's business. (2) A person licensed to sell agri-horticultural poisons can do so only at the premises specified on the licence.

Industrial Spirit (80/37).—If you have obtained from the Excise authorities permits for the use of industrial spirit in the manufacture of a toilet preparation, we presume you submitted the formula and a sample of the preparation. Any departure from what has been agreed upon, by the addition of something to remove or minimise the unpleasant odour of the methylated spirit, would be a serious matter for you.

W. M. (81/37) wants to know if a chemist is bound to supply goods to everyone who comes into his shop to buy, or can he refuse to supply certain persons? [Generally speaking, if a man offers to sell certain goods and a person comes along and accepts that offer by expressing his willingness to purchase on the terms offered, then there is a binding contract. Special cases have, however, to be considered on their merits, and our subscriber does not say what he is aiming at.]

Phenacetin (88/26).—None but persons registered under the Dentists Act can recover fees and charges for dental operations and attendance or advice. The High Court has held that this does not debar unregistered persons from recovering charges for making artificial teeth. In the case you mention the latter charges probably constitute the greater part of the account, and if your customer disputes it, her chance of getting relief is to prove that the charges are excessive.

Interested (92/10).—You are wrong on two points: first, the exemption to persons who have served a regular apprenticeship to a chemist is under the Medicine-stamp Act, 1812, and not under the Spirits Acts; second, our article last week referred to sale of spirituous medicines by chemist-companies, and not to sale by unqualified persons. It is illegal for the latter to sell spirituous medicines or wines without a spirit or wine licence. That is what the Board of Customs and Excise say.

Perplexed (89/29).—The Secretary to the Excise Department has stated more than once during the past year that registered chemists only may sell spirituous medicines without a spirit-licence. See *C. & D. Diary*, p. 229 (5). The effect of the order as regards chemist companies is to legalise sales which hitherto have been winked at. There is no provision to legalise sales of spirituous medicines by unqualified persons who have no spirit-licence, which is the same as is required by publicans or victuallers.

W. F. G. (86/11).—Your handbill does not infringe Section 3 of the Dentists Act. We cannot undertake to define the limits to which unregistered persons practising dentistry may go in advertising their practice. The Scots High Court has ruled that the use of "American Dentistry" and "Dental Office" by such persons is not an offence, and the English Court of Appeal has recently referred to that judgment with greater respect than they had for the Divisional Court's judgment in Barnes *v.* Brown. You must make up your own mind as to whether you use these descriptions or not.

G. W. P. (91/59).—(1) Do the existing Pharmacy Acts compel a manufacturer who supplies the user direct from his works with a preparation containing about 10 per cent. carbolic acid to label that preparation "poison"? [Yes, if it is a liquid preparation.] (2) When the said preparation is retailed over a counter, must the retailer be a pharmaceutical chemist or else be licensed to sell poisons? [The retailer must be a chemist and druggist, pharmaceutical chemist, or registered medical practitioner. An unqualified person cannot sell the preparation unless it is for use as sheep-wash or for any other purpose in connection with agriculture or horticulture, in which case no licence is necessary, but the other conditions of the Act have to be strictly observed.]

Miscellaneous Inquiries.

T. A. (57/15).—SODA-FOUNTAIN GUIDE.—The best books on this subject are Eberle's "Soda-water Formulary," published by the "Texas Druggist" Publishing Co., and the "Spatula Soda-water Guide," published by the "Spatula," Boston, Mass., at $1. We have at various times given formulæ for summer specialities, such as lemonade-crystals and fruit-syrups; but we gather from your letter that you particularly refer to dispensed beverages.

R. W. C. (83/33).—The "British Medical Journal" published about two years ago an article reporting upon proprietary remedies for epilepsy.

H. W. G. M. (81/37). POTATO SPRAY. The "alkali" needed for this is either lime or washing soda. Lime is employed in Bordeaux mixture, but the Burgundy mixture, in which washing soda (or soda crystals) is used, is now generally preferred. The proportions are as follows:

Copper sulphate (98 per cent. purity)	2 lb.
Washing soda	2½ lb.
Water	10 gals.

Dissolve the copper sulphate in 8 gals. of water and the washing-soda in 2 gals. of water. Then pour the soda solution slowly into the copper solution, stirring all the while. The resulting liquid should be alkaline to litmus.

B. S. C. (85/4).—Continuation of the correspondence would not serve any public advantage.

Gels (Natal) (67/11).—PURIFICATION OF CARBON BISULPHIDE.—The odour of carbon bisulphide is removed by shaking 2 to 3 parts of dried copper sulphate with 100 parts of the liquid. When all the blackened copper sulphate has settled down and no further smell of sulphuretted hydrogen is perceptible, the liquid is decanted. Absolute purity is obtained by rectifying over copper sulphate. To prevent the carbon bisulphide from again becoming unpleasant it should be stored with some dry copper sulphate in the bottom of the vessel. Agitation with metallic mercury or with 0.5 per cent. of mercuric chloride is also practised for the same purpose as copper sulphate. Carbon tetrachloride would not answer the same purpose as carbon bisulphide as an internal parasiticide for dogs.

Lino (63/13) and *Chemicus* (82/33).—DRY-ROT PREVENTIVE.—The surface of the wood is painted with a solution of 6 oz. of corrosive sublimate in 1 gal. of methylated spirit. Carbolic acid or creosote is also employed. Leaflet No. 113, published by the Board of Agriculture, 4 Whitehall Place, London, S.W., can be obtained free of cost on application to the Secretary. The letter need not be stamped.

F. J. (78/36). COMBINED TONING AND FIXING BATH.—It is impossible to prevent this bath from precipitating on keeping. It should be made with hot water to hasten the reactions. We endeavoured some years ago to explain the complicated reactions of this bath, with the object of showing that the secondary precipitation of sulphur is slow and unavoidable.

P. B. (81/66).—HERB-BEER EXTRACT.—The following is a good formula, which you can modify in regard to flavouring, etc.:

Ext. lupuli	ʒij.
Ext. anthemidis	ʒss.
Ext. taraxaci	ʒj.
Aquæ	℥viij.

Rub down the extracts with the water, add boric acid ʒij., and bring the solution to the boil. Close the vessel until cold, strain, and add—

Dec. sarsæ co. conc.	℥iij.
Sacch. ust.	℥ij.

Then dissolve—

Ol. gaultheriæ	♏vj.
Ol. cinnamomi	♏v.
Gingerini	♏x.
S.V.R.	ʒj.

Add to the mixture, and make up to 20 fl. oz. with treacle.

M. P. (52/7).—METAL-PASTE.—The following recipe gives product that resembles your sample:

Precipitated silica	10 lb.
Kieselguhr	4 lb.
Crude oleic acid	20 lb.
Paraffin wax	4 lb.
Oil of mirbane	½ oz.

Melt the paraffin wax with the oleic acid, then grind with the other ingredients under edge-runners.

DR. SHOEMAKER'S OINTMENT.—In reply to the inquiry as to what is meant by the above, *Mr. W. T. Hickman*, Ventnor, suggests that it is ung. zinci oleatis B.P. He adds that pulv. zinci oleatis is often called "Shoemaker's powder."

W. N. A. (76/17).—SODIUM BISULPHITE LIQUOR, or lye, is the commercial solution of sodium bisulphite. It is ordered as an ingredient in the fixing-bath required in Lumière's autochrome process. In practice it is found that in place of 50 c.c. of the liquor one can use 7 grams of potassium metasulphite. We cannot tell what is meant by "potassium borobromide solution." Perhaps some reader can give us the reference.

Homœo (79/40). Liquid Soap for Surgeons' Use.—The following is stated by Richaud to give a liquid soap which froths well and also penetrates the skin:

White soap	1,000 parts
Soft soap	1,000 parts
Poppy oil	500 parts
Water	3,000 parts

The white soap is scraped, mixed with the other ingredients, and the whole heated to form a paste, to which is added:

Glycerin	50 parts
Betanaphthol	50 parts
Alcohol (90-per-cent.)	500 parts
Oil of lemon	50 parts
Water enough to make	15,000 parts

H. W. (87/4).—Green Skin-ointment:

Eucalyptus oil	ʒij.
Resin	ʒiv.
Hard paraffin	ʒij.
Soft paraffin	℥xij.
Chlorophyll	q.s.

Melt the resin and the paraffins, add the chlorophyll, and when nearly cold stir in the eucalyptus oil.

W. P. W. (78/43).—Destroying Ants.—A *résumé* of the methods employed for this purpose was given in the *C. & D.*, October 19, 1907, p. 632. Information is also given in "Pharmaceutical Formulas."

H. & N (86/32).—There is no paper which is soluble in water. Toilet-paper is made of tissue-paper, which becomes pulpy when wet.

P. (78/7).—(1) Tests for Sesame Oil.—There are several distinguishing tests for sesame oil, the most used being Baudouin's test as modified by Villavecchia and Fabris. Ten c.c. of the oil is mixed with 0.1 c.c. of a solution of 2 grams of furfural in 100 c.c. of alcohol, and 10 c.c. of hydrochloric acid (sp. gr. 1.19) added. The tube is shaken for half a minute and allowed to stand, when a carmine-red colour is obtained in the presence of as little as 1 per cent. of sesame oil. Tocher's reaction is another good distinguishing test. Fifteen c.c. of the oil is shaken with an equal amount of a solution of 2 grams of pyrogallol in 30 c.c. of hydrochloric acid. After standing for some time, the oily layer is decanted, and the hydrochloric-acid solution heated for five minutes. In the presence of sesame oil a reddish-purple colour is produced. (2) Dry Shampoo.—See *C. & D.*, August 8, 1908, p. 250, and January 9, 1909, p. 68.

M. J. (62/55).—We cannot identify the ingredients of the "wonderful tonic" mixture.

B. C. Co. (Peoria) (46/63).—Carbon-remover for interior parts of gas-engines.—We find this to consist of acetone and paraffin oil. We suspect other ingredients, but cannot obtain confirmation. There is a crude perfume present, but no picric acid.

Argus (68/70).—Liquid Metal-polish.—This contains kieselguhr in a liquid consisting of solution of ammonia and a little olive oil.

J. H. P. (91/19).—There is no way of removing the depressions in the skin which remain after an attack of acne. The depressions become almost obliterated in time.

W. G. (82/25).—The addition of potassium bichromate to the distemper containing size will make it rainproof. The action of light on the distemper produces an insoluble compound with the gelatin and bichromate.

F. W. D. (Victoria, B.C.) (83/4).—Walnut Hair-dyes.—The following are representative formulæ:

Walnut Pomade.

Extract of walnut-leaves	3 oz.
Benzoated lard	5 oz.
Perfume	a sufficiency

The extract is made with proof spirit from walnut-leaves.

Walnut Oil.

Fresh walnut-shells...	ʒij.
Benzoated oil	ʒx.

Crush the walnut-shells (gathered preferably at the end of August or beginning of September) and rub to a smooth paste. Digest this in the oil on a water-bath until all the moisture is dissipated, filter, and add—

Otto of rose	♏iv.
Oil of neroli	♏viij.

This oil is a true dye, imparting a fine brown shade to grey hair when used day by day. An aniline walnut oil is now obtainable, and is replacing the vegetable product.

Blushing (88/22).—It is not possible to analyse satisfactorily the two "blushing-pilules."

Pyrites (76/52).—We think your surmise is correct. If your customer requires an analysis made, we can supply you with the name of an analyst.

O. H. (83/9).—Florida Water:

Oil of lemon	ʒiss.
Oil of lavender	ʒij.
Oil of verbena	ʒss.
Oil of cloves	ʒj.
Spirit of rose...	℥ss.
Essence of musk	♏iij.
Rectified spirit	℥xx.
Distilled water	ʒiv.

The spirit of rose is made by mixing 15 grains of stearoptene free of otto of rose with 5 oz. of rectified spirit. There are four other recipes in "Pharmaceutical Formulas."

W. W. (Transvaal).—Liquor Eastoni pro Syrupo.—The following is from "Pharmaceutical Formulas":

Iron wire	ʒiiss.
Phosphoric acid, s.g. 1.5	ʒij. ʒvj.
Water	℥iij.

Dilute the acid with the water in a flask, add the wire, and heat gently until dissolved; add hypophosphorous acid ʒss., strain at once, and add to

Powdered strychnine	gr. x.
Phosphate of quinine	ʒiv.
Water	℥iij.

Dissolve, filter, and wash the filter with water to make the filtrate measure 10 oz. One part of this solution to 3 parts of thick syrup makes Easton's syrup. It is advisable to keep the iron and alkaloid solutions separate.

Phos (77/44).—Estimation of Diastase in Malt Extract.—This was fully dealt with in a paper by Messrs. E. F. Harrison and D. Gair before the British Pharmaceutical Conference in 1906. It is reported in the *C. & D.*, July 28, 1906, p. 179.

R. S. B. (77/11).—Canary-colouring.—This is tasteless or sweet cayenne mixed with bread-crumb or biscuit with or without sugar. Some recipes are given in "Pharmaceutical Formulas."

Habit (71/50).—Nail-biting Preventive.—The colourless and odourless liquid which is applied to the finger-nails to prevent children biting the nails is a solution of quinine. Eight grains to the ounce, dissolved with the minimum amount of dilute sulphuric acid, is the proper proportion.

C. D. (50/49).—We cannot undertake the analysis of the stock-food and compound-absorbent.

Syrcsa (88/40).—We cannot trace the formula you refer to. The best alkali to use in a cleansing-powder for dental plates is dried sodium carbonate, but a small proportion of caustic soda is sometimes employed.

P. H. G. (70/13).—Metal Polishes.—See *C. & D.*, March 7, 1908, p. 386, and March 14, 1908, p. 433.

A. F. (69/68).—Foaming-cream.—The preparations for producing foam in beverages were formerly made from quillaia-bark, but are now produced direct from saponin. For instance, a standard formula is to dissolve 4 oz. saponin in 7 pints of water, and when solution has taken place add 1 pint of rectified spirit.

J. G. K. (69/54).—Moustache-darkener.—The colourless liquid used for darkening the moustache is probably a plain solution of silver nitrate. Five grains to 1 oz. produces a brown tint.

W. L. W. (76/26).—Clearing Boggy Ground.—This had better be done by mechanical means. Weed-killers are quite inadmissible, in view of the fact that it is intended afterwards to grow watercress on the land.

Scalp (75/67).—Greasiness of the Hair.—You cannot prevent the excessive secretion of oil by the hair, but it can be readily removed by regularly washing the head with an alkaline shampoo-powder such as the following:

Dried carbonate of sodium ...	ʒiss.
Dried curd-soap	ʒiss.
Solution of orange	a sufficiency

Make into a powder, which is used with a pint of water as a shampoo.

Thyroid (Manchester) (90/16).—You have not told us who you are, and we do not answer anonymous writers. If you want a reply, repeat your question.

H. W. (90/60).—Repeat your query. We cannot trace it.

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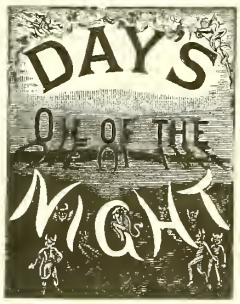

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„ Boric. Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; Levigated, 3/- cwt. extra.
„ **Carbol Xtls.**, 39/40; 56 lbs. @ 5½d. lb.; 10-lb. Tins @ 5/6 each; Detached Cryst. 8/- each; 36 1-lb. Bots. @ 9d. lb., Single Bots. 11d. lb.; Detached Cryst. 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks @ 10d. gall.; 1 Gall. Tins @ 1/5 each.
„ Diethylbarbituric. 16 oz. @ 3s/6; 1 oz. @ 2/8
„ Gallic pur. P.B., 7 lbs. @ 1/10 lb; 1 lb. @ 2/- lb.
„ Hydrobrom., dil., B.P., 6 lbs. @ 7d. lb.
• „ Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1 oz. Vials @ 3/6 doz.
„ **Oxalic Cryst.**, 5 cwt. @ 3¾d. lb.; 1 cwt. @ 3⅝d. lb.; 14 lbs. @ 4d. lb.
• „ Phospb. Dil., B.P., 8 lbs. @ 4½d. lb.
„ Salicyl. pulv., 1 cwt. @ 1/1 lb.; 28 lbs. @ 1/2 lb.; 7 lbs. @ 1/3 lb.; phys. pure, 1 lb. @ 3/- lb.
„ Sulphur, Coml., cases, 4 2-gal. jars, 17/- each; 20 cases @ 16/- each.
• „ Sulph. Aromat., B.P., 5 lbs. @ 3/8 lb.
„ Tannic, B.P., 7 lbs. @ 2/2 lb.
„ Tart., cryst. or pulv., B.P. 1885, 1 cwt. @ 10½d. lb.; 7 lbs. @ 11½d. lb.; parv. ½d. lb. extra.
Adeps Lanæ B.P., Anhydrous, 2 cwt. @ 52/6 cwt., Hydrous @ 49/- cwt.; 1 cwt. @ 2/- cwt., 28 lbs. @ 5/- cwt., 14 lbs. @ 8/- cwt., 7 lbs. @ 12/- cwt. extra.
Aloes Barb., English Ground, 28 lbs. @ 70/- cwt.; 7 lbs. @ 8d. lb.
Aloes, Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ [1/5 lb.
Ærugo Æris Pulv., 14 lbs. @ 11d. lb.
Aloin, B.P., 1 lb. @ 3/9 lb.
Ammon. Benz., 7 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
Bismuth, P.B. Carb., 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
Camphor, English Flowers, "not artificial," 5 lbs. @ 1/11 lb.; ½ oz. 7 lbs. @ 2/1 lb.; ½ oz. 7 lbs. @ 2/4 lb.. Crude, 140 lbs. @ 1/4¾d lb.; 28 lbs. at 1/6 lb.
Cream Tartar. 98 % powder, 1 cwt. @ 73/- cwt.; 7 lbs. @ 9d. lb.
Ess. Lemon, 12-lb. copper @ 3/6 lb.; 6 1-lb. bots. @ 4/- lb., not guaranteed absolutely pure.
•**Ess.** Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.
•Ess. Pineapple, 5 lbs. @ 3/4 lb.
• „ Raspberry, 5 lbs. @ 1/10 lb.; 1 lb. @ 2/2 lb.
• „ Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.
•**Ext.** Belladonnæ Liq. B.P., 5 lbs. @ 4/7 lb.; 1 lb. @ 5/- lb.
Ext. Cascara Sag. Liq., B.P., 10 lbs. @ 1/3 lb.
•**Ext.** Ergot. Liq. P.B., 5 lbs. @ 3/1 lb.; 1 lb. @ 3/4 lb.
Ext. Filicis Liq., P.B., 9 lbs. @ 4/2 lb.; 1 lb. @ 4/8 lb.
Ext. Gent., P.B., Solid, 1 cwt. @ 8½d. lb.; 7 lbs. @ 9½d. lb.
• „ Glycyrrh. Liq. B.P., 6 lbs. @ 1/6 lb.
• „ Hamamelis, Liq. P.B., 5 lbs. @ 3/5 lb.
„ Hyoscyam. Solid P.B., 3 lbs. @ 8/9; 1 lb. @ 9/3 lb.
•**Ext.** Ipecac. Liq. P.B., 5 lbs. @ 11/- lb.; 1 lb. @ 11/9 lb.
„ Malti c. Ol. Jecoris, 10 lbs. @ 5½d. lb.
•**Ext. Nucis Vom. Liq. B.P.**, 5 lbs. @ 3/3 lb.; 1 lb. @ 3/6 lb.; solid 4d. lb. extra.
Ferri Carb., 1 cwt. @ 21/- cwt.; 28 lbs. @ 3d. lb.
Ferri et Quinlnæ Cit., P.B.; 500 ozs. @ 3d. oz.; 100 ozs. @ 3½d. oz.; 25 ozs. @ 3½d. oz.
Ferri Sulph., pure cryst., 1 cwt. @ 15/-; 7 lbs. @ 2d. lb.
Ferrum Redact. 80%, 28 lbs. @ 1/1 lb.; 7 lbs. @ 1/3 lb.
Flor. Anth. Exot., 1 cwt. @ 48/-; 7 lbs. @ 6½d. lb.
Fol. Sennæ, Alex. Parv., 1 cwt. @ 4d. lb.; 28 lbs. @ 4½d. lb.
Fol. Sennæ Tinnev. 3½ cwt. @ 2½ l. lb.; 1 cwt. @ 3½ l. lb; 7 lbs. @ 3½ l. lb.; English Ground, 1 cwt. @ 5¾ l. lb.; 56 lb. @ 6d. lb; 7 lbs. @ 7d. lb. [7 lbs. @ 7½d. lb
Formaldehyde, 40%, 132-lb Carboys @ 50/- each;
Fuller's Earth, fine powder or lump, 5 cwt. @ 5/- cwt.; 1 cwt. @ 6/- cwt.
Gamboge English Ground 7 lbs. @ 1/- lb.; 1 lb. @ 4/4 lb.
Gingerine, Extra, 5 lbs. @ 9/6 lb.; 1 lb. @ 10/- lb.
Glycerin. Opt., D.D., 1·260 P.B., 1 cwt. @ 77/- cwt.; 56 lb. @ 78/- cwt.; 12 lbs. @ 10 l. lb.
Honey, fine White Set, 28 lbs. @ 17/- cwt.
Lin. Camph. P.B., 40 lbs. @ 10½ 4. lb.; 9 lbs. @ 11½d. lb.
Lin. Sapo Meth., 9 lbs. @ 7d. lb.
Lin. Tereb. Acet., B.P., 9 lbs. @ 1/- lb.
Linseed o. Oil, Crushed, 3 cwt. @ 16/- cwt.; 1 cwt. @ 16/6 cwt.
•Liq. Ammonii Acetatis Conc. 1-7, 6 lbs. @ 10½d. lb.; 1 lb. @ 1/0½ lb.
•Liq. Ammon. Aromat., 6 lbs. @ 9d. lb.
• „ Antim. Chlor. Pure, 8 lbs. @ 6½d. lb.
• „ Arsenicalis, B.P., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
• „ Arsenii Hydrochlor., P.B., 7 lbs. @ 4d. lb.; 1 lb. @ 7d. lb.
• „ Bismuth. P.B., 6 lbs. @ 10½d. lb.
• „ Copaiba Bucha et Cubeb, 5 lbs. @ 2/6 lb.; 1 lb. @ 2/10 lb.
• „ Easton., p.s. 1-3, B.P., 1 lb. @ 3/- lb.
• „ Ferri Dialysatus, 6 lbs. @ 7d. lb.
• „ Ferri Iod. p.s. 1-7, 1 lb. @ 5/9 lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv., B.P., 25 oz. @ 6/3 oz.; 16 oz. @ 6/4 oz.; 8 oz. @ 6/8 oz.; 1 oz. @ 7/- oz.: Pur. Præcip., Bimeconate or Tart., 1 oz. @ 8/11 oz.

NEWLY REVISED PRICE LIST ON APPLICATION.

Ol. Amygdal. Aug. B.P., 9 lbs. @ 2/- lb.
Opium Turc. B.P., 14 lbs. @ 13/- lb.; 3 lbs. @ 13/6 lb.; 1 lb. @ 14/6 lb; powder, 6d. lb. extra.
Ol. Olivæ, P.B. Flav., 45 galls. @ 4/6 gall.; 2 galls. @ 5/6 gall.
Sapo Cast. Alb., 10 cwt. @ 23/- cwt.; 2 cwt. @ 24/- cwt; 7 lbs. @ 3½ l. lb.; Mottled, 2 cwt. @ 27/6 cwt.; 1 cwt. @ 29/6 cwt., 7 lbs. @ 4d. lb.
Shellac (Orange), 1½ cwt. @ 74/- cwt.; 7 lbs. @ 10d. lb.
Soda Caustica, 28-lb. tin @ 8½d. lb.; 6 1-lb. Bots. @ 10d. lb.
Sodii Bromid. P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.
Soda Cit., B.P., 3 lbs. @ 2/2 lb.
Sodii Hyposulphite, pea cryst. 1 cwt. @ 8/6 cwt.
Soda Salicyl. Pulv., 1 cwt. @ 1/5 lb.; 28 lbs. @ 1/6 lb.; 7 lbs. @ 1/7 lb.; pbys. pur., 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
Soda Sulphocarbolas B.P., 7 lbs @ 10½d. lb.; 1 lb. @ 1/1 lb.
•**Spt.** Æther Nit. P.B., 4½ lbs. @ 3/6 lb.; 1 lb. @ 3/9 lb
•Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/8½ lb.
•Spt. Chloroformi P.B., 5 lbs. @ 3/7 lb.
Strontiæ Bromid., 1 cwt. @ 1/2½ lb.; 7 lbs. @ 1/4½ lb.; 1 lb. @ 1/6 lb.
Strychnina cryst. B.P., 25 ozs. @ 1/6½ oz.; 1 oz. @ 1/10 oz.; Hydrochlor. and Nitrate, 2d. oz. less.
Sugar of Milk, B.P., 1 cwt. @ 46/- cwt.; 7 lbs. @ 6d. lb.
Sulphonal B.P., 1 lb. @ 9/6 lb.
•Syr. Aurant. P.B., 7 lbs. @ 8d. lb.
•Syr. Easton B.P., 7 lbs. @ 1/- lb.
• „ Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.
• „ Ferri Phosphat. Co., 7 lbs. @ 5d. lb.
• „ Hypophosph. Co. B.P.C., 7 lbs. @ 9d. lb.
• „ Pruni Virg. B.P., 8 lbs. @ 7d. lb.
• „ Rhamni, 7 lbs. @ 10d. lb.
• „ Rhei P.B., 7 lbs. @ 7½d. lb.
• „ Scillæ P.B., 7 lbs. @ 4½d. lb.
• „ Sennæ P.B., 7 lbs. @ 8d. lb.
• „ Tolut. P.B., 7 lbs. @ 7d. lb.
•Tinct. Aurantii Recens, B.P., 5 lbs. @ 3 lb.
•Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.
•Tinct. Benzoini Comp., P.B., 5 lbs @ 3/5 lb.
•Tinct. Jaborandi Comp., P.B., 5 lbs. @ 2/5 lb.
•Tinct. Cantharidis, P.B., 5 lbs. @ 2/9 lb; bond 6d. lb.
•Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.
•Tinct. Cardam. Comp., P.B., 5 lbs. @ 2/6 lb; bond, 6d. lb. [7½ l. lb.
•Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb; bond,
•Tinct. Chlorof. c. Morph. Comp., B.P. 1885, 5 lbs. @ 1/11 lb.; bond, 1/5½ lb.
•Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/1 lb.; bond, 10½d. lb.
•Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb; bond, 10d. lb.
•Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb; bond, 5½ l. lb.
•Tinct. Gelsem., B.P., 5 lbs. @ 2/10 lb.
•Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb; bond, 6 l. lb.
•Tinct. Hyoscyami, B.P., 5 lbs. @ 2/10½ lb; bond, 6 l. lb.
•Tinct. Iodi, B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; le ol ur, 5 lbs. @ 4/3 lb.
•Tinct. Lavandulæ Comp. B.P., 5 lbs. @ 3/10 lb., bond, 6½d. lb.
•Tinct. Myrrhæ B.P., 5 lbs. @ 3/9 lb.; bond, 9d. lb.
•Tinct. Nucis Vom. B.P., 5 lbs. @ 2/10 lb.; bond, 5¾d. lb.
•Tinct. Opii B.P., 5 lbs. @ 3/- lb.; bond, 1/11 lb.
•Tinct. Opii Amon. B.P., 5 lbs. @ 3/4 lb.
• „ Opii Aquos, 5 lbs. @ 2/2 lb.
• „ Quiniæ Amm. B.P., 5 lbs. @ 3/6 lb.; bond, 11d. lb.
•Tinct. Rhei Co. B.P., 5 lbs. @ 2/3 lb.; bond, 8d. lb.
•Tinct. Scillæ B.P., 5 lbs. @ 2/6 lb.
• „ Senegæ P.B., 5 lbs. @ 3/1 lb.; bond, 1/3½ lb.
•Tinct. Strophanth. P.B., 5 lbs. @ 3/5 lb.; bond, 8d. lb.
•Tinct. Valerianæ, 5 lbs. @ 2/8 lb.; bond, 6d. lb.
•Tinct. Valerianæ Ammon. P.B., 5 lbs. @ 2/1 lb.; bond, 8½d. lb.
•Tinct. Zingib. P.B., 5 lbs. @ 4/- lb.; bond, 6½d. lb.
•Tinct. Zingib. Fortior, 5 lbs. @ 4/3 lb.; bond, 10½d. lb.
Treacle (Black), 5½ cwt. @ 10/- cwt.; 24 lbs. @ 2d. lb.
Ung. Acid. Boric. P.B., 28 lbs. @ 6½d. lb.; Flav. 28 lbs. @ 4½d. lb.
„ Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
„ Gallæ P.B., 7 lbs. @ 10d. lb.; 1 lb. @ 11d. lb.
c. Opio, 7 lbs. @ 2/2 lb.
„ Hydrargyri B.P., 28 lbs. @ 1/8 lb.; 7 lbs. @ 1/9½ lb.
„ Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.
„ Hyd. Nit. Dil., 7 lbs. @ 10d. lb.
„ Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb.; Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6½d. lb.
„ Resinæ, P.B., 28 lbs. @ 9d. lb.; 7 lbs. @ 10d. lb.
„ Sulpburis B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.
„ Zinci Oxid. Benz. B.P., 28 lbs. @ 7½d. lb.
Wax, Japan, 2 cwt. @ 51/- cwt.; 7 lbs. @ 7d. lb.
Zinci Oxid., Whitest and Lightest B.P., 1 cwt. @ 34/- cwt.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.
Zinci Sulph., pure, 1 cwt. @ 15/ cwt.; 28 lbs. @ 2¾d. lb.
„ Sulphocarbolas B.P. 7 lbs. @ 10½d. lb.; 1 lb. @ 1/1 lb.

•Minimum quantity at these prices, Home Trade, 3 Winchester Quarts assorted. Export, 12 Winchester Quarts assorted

NOTE.—Only Terms Net Cash with order without discount, or orders accepted through London Merchants or Bankers.
Goods carriage forward; all packages free; Export cases extra.

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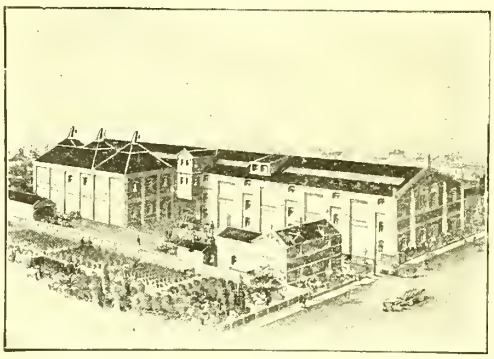

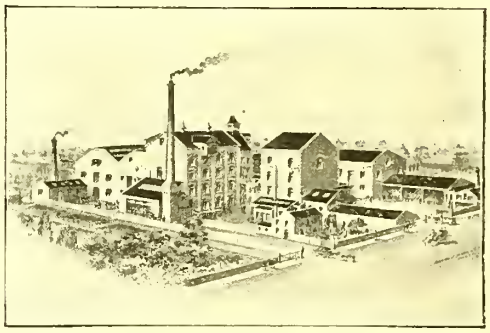

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Pil. Aloes et Ferri, gr. iv.; Ol. Pulegii, ♏ ⅛ .. .. .. **2d.** *per gross.*
Pil. Antibilious, Pil. Hydrarg., Pil. Rhei Co., aa. gr. ij. ss. **4d.** *per gross.*
Pil. Aperient (Ext. Aloes Aquos ℈j., Pulv. Cambog. gr. iv., Pulv. Jalapæ, gr. viij.; Pulv. Colocynth. gr. vj.; Pulv. Hyd. Subchlor., gr. iv.; Sapo Hyspan. gr. iv.; Gingerin. gr. iv.; Ft. Pil. xij.) .. .. **2½d.** *per gross.*
Pil. Aperient (Little) (Aloin, Jalapin, aa. gr. 1-10; Podophyllin gr. 1-5; Ext. Hyoscy., Ext. Nucis Vom., Capsicin, aa. gr. 1-20) .. .. **2d.** *per gross.*
Pil. Back and Kidney (Oval) Gelatine-coated (Ext. Buchu, Ext. Uvæ Ursi, Pulv. Capsici, aa gr. ¼; Ol. Juniper., ♏ ¼: Pulv. Pot. Nit., gr. j.; Podophyllin, gr. ⅛; Tereb. Venet., gr ⅛ .. .. **7d.** *per gross.*
Pil. Castor Oil (Ol. Ricini, gr. ½; Pot. Sulph., gr. 1½; Pulv. Rhei, gr. ij; Sapo Hyspan., gr. ½; Ol. Crotonis, gr. 1-16) .. .. .. **2d.** *per gross.*
Pil. Calcii Sulphid., gr. ⅛ ¼, ½, or 1 .. .. **2½d.** *per gross.*
Pil. Coloc. Co., B.P. .. .. **5½d.** *per gross.*
Pil. Coloc. et Hyoscy., B.P. .. .. **5½d.** *per gross.*
Pil. Dandelion and Camomile (Ext. Taraxaci, Ext. Anthem, Pulv. Rhei, aa. gr. j.; Pulv. Zingib., Pulv. Aloes Barb., aa. gr. ¼; Ol. Carui, gr. ¼) **2½d.** *per gross.*
Pil. Ferri Co., B.P. .. .. **9/6** *per 100 gross.*
Pil. Gout and Rheumatic (Ext. Colchici Acet., gr. ss.; Pil. Hydrarg., Pil. Rhei Co., Ext. Hyoscy., aa. gr. j.) .. .. **7d.** *per gross.*
Pil. Ipecac. et Scillæ, B.P. .. .. **3d.** *per gross.*
Pil. Neuralgic (Quineti, Ferri Sulph., aa. gr. ½; Ext. Bellad., gr. ¼; Ext. Colchici Acet., gr. ½; Hyoscy, Camphoræ, aa. gr. j.) .. **8d.** *per gross.*
Pil. Podophyllin (Podophyllin gr ¼; Ext. Coloc. Co., gr. ½; Pulv. Aloes Socot., gr. j.; Pulv. Scammon., gr. ¼; Sapo Hyspan., Ext. Hyoscy., Gingerine, aa. gr. ⅛ .. .. **5d.** *per gross.*
Pil. Quinine, gr. j. .. .. **5½d.** per gross.
Pil. Quinine, gr. ij .. .. **9d.** *per gross.*
Pil. Rhei Co., B.P. .. .. **2d.** *per gross.*
Stomach and Liver Beans (Oval) Gelatine coated, same Formula as Pil. Aper., but with 1 gr. Calomel in each Bean .. .. **5d.** *per gross.*

Minimum quantity, 5 × 10 gross tins, which may be assorted, with the exception of Pil. Ferri, B.P. All Pills Pearl coated unless otherwise indicated. No extra for coloured coatings.

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The Pill, Tablet & Capsule Alliance,
65 Rose Hill Street, DERBY.

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, JULY 3, 1909.

PUBLISHER'S NOTICE TO ADVERTISERS.

Advertisers are desired to take note that the advertisements of Businesses for Disposal and Wanted, Situations Open and Required, Exchange Column, &c., belong to the **PREPAID CLASS, and to ensure the due insertion of the announcements the remittances must accompany the instructions.** A great amount of unnecessary correspondence is occasioned by the non-observance of this regulation, and the Publisher hopes that the advertisers will assist in the quick preparation and despatch of the Supplement by strictly observing this rule. Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."

A full measure of success is secured by advertising in this Supplement.

IT PAYS TO PAY FOR ADVERTISING HEREIN.

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Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION

1.—VICTORIA STATION (near).—Old-established Business; held by vendor over 25 years; returns between £1,200 and £1,300 per annum; *net profit* £439; full investigation invited; price £1,000.

2.—LONDON, S.W.—Old-established Business; Retail and Dispensing; position unique; returns average £1,273, which produce a *net income of* £434; intending investors with £1,050 at command will find this a sound investment.

3.—SURREY (within easy distance of Town).—Retail and Dispensing Business; all good middle-class trading; returns £700; formerly between £900 and £1,000; scope for development; attractive shop; good residence; terms, goodwill, £50, stock and fixtures at valuation.

4.—LONDON (Northern Suburb).—Modern Pharmacy; established by vendor; returns between £1,900 and £2,000 yearly; well-fitted shop; stock above the average; excellent house; private entrance; price £1,200 or valuation; terms entertained.

5.—LONDON, S.E.—Neglected Business; main thoroughfare; returns £12 weekly; scope for large development; illness cause of sale; to effect a speedy transfer less than the value of stock and fixtures will be accepted.

6.—LONDON, W.C.—Established Business; Retail and Dispensing; returns £20 weekly; *gross profit* 50 *per cent.*; the shop is well fitted in mahogany; no immediate opposition; price £700.

7.—BANKS OF THE THAMES.—General Retail and Prescribing Business; returns last year £720; *net profit one-third*; good house; rent £60; held on lease; price £350.

8.—BUCKS.—Old-established Business; capitally situated in the market-place; returns between £1,200 and £1,300 yearly; *gross profit* £590; comfortable house and garden; rent £45; new lease; price £1,000; illness cause of sale.

9.—KENT (Market Town).—Old-established Business; excellent position; returns under manager £600; good opening for extended trade; roomy house, vendor's own property; offer wanted.

10.—CAMBRIDGE (within easy distance of).—Mixed Business; entirely unopposed; returns £1,115; *net profit* £250; double-fronted shop; good residence; garden; rent £35; price £450; part may remain, say £150.

11.—WORCESTERSHIRE.—Old-established Business; Retail and Dispensing, with excellent sale for own Proprietaries; the shop has double front, and is situate in the centre of town; roomy house; garden and warehouse; price £750.

12.—DERBYSHIRE.—High-class Retail and Dispensing Business; held by vendor many years; returns under assistant £700 yearly; attractive shop, double fronted; large residence; held on lease; valuation terms entertained.

13.—MIDLANDS (Health Resort).—Death Vacancy.—High-class Retail, Dispensing, Optical, and Photographic trade; returns £600; *gross profit about half*; attractive shop, double fronted; price £350.

14.—SURREY (Charming Locality).—Old-established Business; Retail and Dispensing; returns exceed £1,000 per annum; *net profit* £360; vendor retiring; reasonable offer considered.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

YORKS.—General, Light Retail, Dispensing, and Prescribing; store prices; in large manufacturing town; good shop; fine position; returns £1,083; price £650; can be greatly increased.

MIDLANDS.—A fine opportunity to acquire good profitable concern; General, Retail, Oils, Paints, Drysaltery, etc.; death vacancy; returns, etc., on application; price valuation (about £1,100).

MIDDLESEX.—Light General Retail; under unqualified Manager; nice house and shop; low rent; returns £516 and increasing; net profit £150; valuation (about £250).

SOUTH COAST.—Good General Retail Drug Stores; returning £1,200, as branch; net profit £290; price £60 and valuation (about £500); under principal capable of being greatly increased; an excellent opportunity.

CAMBS.—Unopposed Mixed General Country Retail and Agricultural; exceptionally good shop, house, and premises; old-established; low rent; returns £1,100; profitable; to effect a quick sale will accept the low price of £450; chance of a lifetime.

LANCS.—High-class General Retail, good Prescribing, and excellent Proprietaries; in fine position of popular seaside resort; old-established; returns over £1,000; price £100 and stock and fixtures at valuation.

YORKS.—Good Country Mixed Retail, Prescribing, and Photo; excellent shop and premises; garden; old established; returns nearly £700; profitable; price only £230; no qualified opposition.

YORKS.—Very good Mixed Country Retail, which can easily be greatly increased by qualified man; good shop and house; returns over £520; price £250; grand opportunity.

LONDON, N.—Dispensing, Prescribing, and Light Retail, Photo and good Specialities; comfortable house and garden; returns £600; price £250; very profitable; stock, etc., worth £350; a bargain.

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MARKET TOWN, HERTS.—Old-established Agricultural and Family Business; neglected; now returning £800; formerly £1,400; in centre of market-place; large house; rent £80; let off without inconvenience £25.

LONDON, W.—Good Family Retail, Dispensing, and Prescribing; good prices; several good Proprietaries; shop fitted mahogany throughout; good house; private entrance; average returns £750; price £600 or offer; quick sale desirable.

Several good Businesses in London and suburbs from £250 to £500; correspondence invited.

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

MESSRS. BERDOE & FISH,

Chemists' Valuers and Transfer Agents,

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Have the following Businesses for Disposal. (No charge to Purchasers.)

1.—HOME COUNTY.—First-class Retail and Dispensing Business, in best position of growing town; returns approach £1,300; net profit £434; handsomely fitted shop, fully stocked; price about £1,200, or valuation terms arranged; strongly recommended.

2.—MIDDLESEX (few miles out).—Good-class Light Retail and Dispensing Business, in splendid position; returns over £1,900; good profits; elegantly fitted Pharmacy; heavily stocked; price £1,250; personally inspected.

3.—LANCS (Popular Seaside Town).—High-class Cash Retail; central position; returns £1,050; good profits; price £250 and valuation.

4.—SOUTH COAST.—Good-class Retail; under manager; returns £1,200; good position; price only £500, or £60 and valuation.

5.—SUSSEX (Market Town).—Good-class Country Retail; returns about £850; very good position; commodious premises; price £500.

6.—OXFORDSHIRE.—Good-class Light Retail; pleasantly situated, growing town; returns £560; net profit £200; good house; large garden; price £520, little more than valuation.

7.—SURREY.—Unopposed good-class Village Business; returns over £500 under manager; low rent; well stocked; price £250.

8.—LONDON, S.W.—Good-class Suburban Retail; returns about £1,350; net profit over £400; price £950.

9.—LONDON, S.E.—High-class suburban Retail; returns £950; handsome shop, fully stocked; price £800; strongly recommended.

10.—LONDON, N.W.—Good-class Retail and Dispensing; returns £750 to £800; scope for increase; net profit £200; price £350, or offer.

11.—DEVON (Market Town).—Old-established good-class Country Retail Business; returns nearly £1,000; excellent profits; large house and garden; attractive shop; stock and fixtures worth over £850; price about £850; £300 can remain.

12.—CHESHIRE (Seaside Resort).—Good-class Retail; excellent position; returns £800; net profit £275; price £450, or near offer.

13.—SURREY.—Good Country Retail, in growing town; returns £550; net profit £200; price £525.

14.—YORKS (Death Vacancy).—General Mixed Retail Business; neglected; returns over £1,000; price for quick sale about £250.

15.—GLOUCS.—Old-established Light Country Retail; returns nearly £500; net profit about £200; large house and garden; low rent; no opposition; price £400.

16.—SOUTH WALES.—General Light Retail; returns about £650; practically unopposed; low rent; price £550; £300 can remain.

17.—LIVERPOOL.—Profitable Light Retail and Prescribing; returns under manager £650; good position; price £275.

18.—SHEFFIELD (near).—Light Retail and Prescribing; few Patents; returns £14 weekly; growing district; no opposition; price £200.

19.—LONDON, N.—Profitable Cash Retail; returns £946; net profit £345, increasing; good position; price £650.

20.—CRYSTAL PALACE District.—Good-class Retail and Dispensing; returns £700, increasing; good house, garden, etc.; price £350.

21.—LONDON SUBURB.—Cash Retail and Prescribing, in good-class district; returns £520, increasing; price £175.

INTENDING VENDORS.

Messrs. BERDOE & FISH have at the present moment several genuine purchasers anxious to secure businesses showing anything from 300*l.* to 600*l.* net profit yearly. Correspondence cordially invited. Strictest privacy guaranteed.

G. BERDOE established the firm in 1870, and W. S. FISH was apprenticed to him in 1877.

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NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

BOW, E.—Genuine old-established Light Retail Business, bringing in a steady income of £140 per annum after all expenses paid; has done double; private entrance and good garden; electric light; owner retiring; price for quick sale £200. 109/31, Office of this Paper.

CARDIGAN BAY.—To be Sold, at end of season, genuine profitable Business in bracing health resort; returns (1908) £589, with excellent profits; price, valuation of stock and fixtures; bargain; vendor taking over a larger business in another town. "Welsh" (104/15), Office of this Paper.

CATFORD.—Retail and Prescribing Business; established by vendor 14 years since; thickly-populated neighbourhood; capital opening for a young, energetic man; no immediate opposition; to effect a speedy transfer the sum of £75 will be accepted. Apply, 94/5, Office of this Paper.

CHELTENHAM (Health Resort and Educational Town).—For Disposal, good-class Light Retail, Proprietaries, Dispensing, and Photographic Business; central position; modern mahogany mirrored fittings; York glass recessed labelled bottles; gas, electric light; good house; perfect sanitation; private door; capital required about £750; lease; wishes to retire from Chemist business. Apply, Arthur Hill, Chemist and Dentist, 98 High Street, Cheltenham.

FLINT (NORTH WALES).—£325 (about); owing to the death of proprietor an old-established Mixed Retail, Dispensing, and Photographic Business for immediate Disposal; returns for three years averaged nearly £800; splendid opening; rent only £26; large new works in course of erection. Apply, J. Williams, Accountant, Flint.

GLOUCESTERSHIRE (Manufacturing District).—Old-established Retail, Dispensing, and Prescribing Business for Sale; returns between £400 and £500; good profits; low rent; advertiser is buying larger business and will accept the first reasonable offer; full investigation invited. For particulars apply, 105/20, Office of this Paper.

KENT.—£180; unopposed Market Village Business; old established; doing a good Proprietary trade; with large scope for increase and Side-lines; large house, garden, stable, and coach-house; rent and rates £40; owner giving up Drugs. "Kent" (107/30), Office of this Paper.

KENT (in Healthy and Growing Residential Locality, within 20 miles of London).—Light Family Retail and Dispensing Business, with an increasing turnover of £1,000; net profit over £300; modern Pharmacy; exceptionally well fitted and stocked; moderate rental; convenient residence attached; price £760. Address, "Retiring" (109/21), Office of this Paper.

LINCS.—Drug Stores; established 14 years (same hands); no opposition; situated between two off-licensed houses; main street; thickly-populated neighbourhood; splendid chance for pushing man; owner compelled to sell on account of other business; trial if required; rent £22 10s. and rates; house and garden; stock and fixtures at valuation (about £50). "Antipyrin" (106/27), Office of this Paper.

LINCOLNSHIRE.—Leading town; good Family and Prescribing Business for immediate Disposal; excellent position in main thoroughfare; established over 40 years; convenient living accommodation; moderate rent; cash price about £350. Wyleys, Ltd., Coventry.

LONDON, S.W.—Main thoroughfare; in fashionable neighbourhood; old-established Retail Dispensing Business for Sale; full prices charged; good lease; low rent; vendor retiring; exceptional opening for energetic man. "L. H. E." (104/18), Office of this Paper.

LONDON Suburb.—High-class Light Retail, Dispensing, and Photographic Business in main thoroughfare; shop handsomely fitted and well stocked; good opening for Optics; price, valuation of stock and fixtures (about £400); fullest investigation invited to genuine buyer; references required; no agents. "Confidential" (74/6), Office of this Paper.

MIDDLESEX.—Good-class Dispensing and Family connection; nicely-fitted Pharmacy; electric light throughout; convenient house, with garden; net profits average last three years over £300; price £675; retiring; reference will facilitate business; no agents. Address, 106/39, Office of this Paper.

SHEFFIELD (near).—Light Cash Retail and Prescribing; good prices; main road; managed by lady; good house, well decorated and comfortable; capable of doing a big business; genuine bargain; suit beginner or elderly person; price £85. Brett & Co., Chemists' Valuers and Transfer Agents, 8 West Street, Leicester.

SOUTH-EAST COAST.—Unopposed Retail, Prescribing, and Photographic Business; opening for Dentistry (none in the place); through exceptional circumstances a genuine bargain is offered for immediate purchaser; price £350 (no agents), or by valuation; good house and garden; low rent; weekly returns from £8 to £10. Particulars, "Nemo" (100/34), Office of this Paper.

STAFFORDSHIRE.—Pharmacy Act, 1908. For immediate Disposal, a good Branch Business, in consequence of above Act; a profitable return (£1,000 per annum); few Patents or heavy trade; very light stock; lock-up shop, in busy main thoroughfare of large Midland manufacturing town; price £200 (stock and fixtures) to immediate cash purchaser. Apply, "B.," Evans Sons Lescher & Webb, Liverpool.

SURREY.—Lucrative Business; returns £500; net profits £200; well fitted and stocked; low rent; convenient lease; small house, garden; lovely residential district; no opposition; excellent opportunity for beginner, there being scope for great increase; £200 accepted for immediate sale; fullest investigation invited. Inge & Co., Pharmacists, Chiddingfold.

SURREY (12 miles S.W. London).—Snug, genuine Retail and Photographic Business; nearly £6, increasing; profitable Proprietaries; well-fitted shop; clean, saleable stock; good house, bath (h. and c.); good garden, with fruit-trees, etc.; every investigation; must be sold; satisfactory reasons; to immediate purchaser only £200. "South-West" (89/37), Office of this Paper.

WARWICKSHIRE.—Country Business; unopposed; Wines and Spirits, Tobacco; main thoroughfare; good house and shop; rent £25; returns average £640; suit beginner or Store man; price £300. 93/56, Office of this Paper.

YORKSHIRE (West Riding).—For immediate Disposal, old-established Chemist's Business; prominent corner position in populous district; owner dead; returns £900; price £250. 85/17, Office of this Paper.

BUSINESSES FOR DISPOSAL

(continued.)

YORKSHIRE.—Pleasant country market town; first-class, old-established Dispensing Business; returns £1,100; handsomely-fitted shop; good house (separate entrance); short hours (closing 7 P.M.); half-day closing; rent £50; price £2,000. F. W. Smith, 3 Belgrave Terrace, Leeds.

BARGAIN.—Genuine Cash Business for Disposal; price £140; owner would take £100 down and £40 by instalments; good reason for disposal; returns for last 3 years average £7 per week; nicely fitted double-fronted shop, with convenient house and garden; 10 miles from London; rent £30. 108/40, Office of this Paper.

CHEMIST'S and Druggist's Business for Sale (established over 50 years) in populous Manchester district; stock, fixtures, etc., £100; splendid opening for energetic people; present owner retiring from business. Further particulars, Herbt. H. Woodward, Auctioneer and Estate Agent, 92 Market Street, Manchester. Tel. 5377 City.

COUNTRY (20 miles from Town).—Good-class Retail, with Gilbey's Agency, and a well-known Proprietary; good house and large garden; beautiful and healthy district; returns £1,100; rent £50; easily worked, single handed; price £600. "Beta" (91/44), Office of this Paper.

DISPENSING Business in Midlands for Sale; returning between £700 and £800; good house and shop; in main thoroughfare; small goodwill and valuation; part price can remain. "A. B." (107/6), Office of this Paper.

EXCEPTIONAL Opportunities.—Messrs. H. Whyte & Co. (Medical Transfer Agents) have a large number of Chemists and Druggists' Businesses on their books for Disposal in rapidly rising districts; they also invite vendors to communicate with them. Note only address: 10 Duke Street, Adelphi, London, W.C. Telephone 10680 Central.

GENUINE, sound, old-established Country Business in Kent; only Chemist in the district; large and convenient premises; moderate rental; net profit over £300; for immediate disposal vendor will accept £450; only gentlemen with cash ready need apply. Write for location to "Primus" (105/34), Office of this Paper.

HEALTH Resort, county town and yachting station (North Wales); high-class old-established Dispensing, Optical, and Retail; excellent and annually increasing connection; only one opposition in town (unqualified) and for a distance of several miles; owner leaving country; low price to dispose before summer season; good premises; low rent. "Alpha" (106/8), Office of this Paper.

IMMEDIATE Disposal.—Old-established Chemist's Business; Prescribing, own Proprietaries, no Patents; low rent; main road in Bristol; price £125 cash. 110/1, Office of this Paper.

IN N.W. District.—Good-class Dispensing and Retail at valuation of stock and fixtures and small sum for goodwill; returns £750 to £800; well-fitted, attractive shop; capable of considerable increase in energetic hands; good opportunity for beginner. 109/29, Office of this Paper.

LARGE town, South Coast; old-established Business; Cash Retail and Prescribing, with some Dispensing; good position; returns £7 weekly, full average profits; scope for increase, with opening for Dentistry; long lease at moderate rent; satisfactory reasons for selling; price about £150. Apply, 106/10, Office of this Paper.

OLD-ESTABLISHED high-class Pharmacy for Sale; health retirement; large, handsomely-fitted hall, with every modern convenience; electric light; main thoroughfare; pleasant dwelling-house attached; introduction given; price about £2,000. Apply, by letter only, "M.P.S.I.," c/o Barron, Harveys & Co., 6 Giltspur Street, London, E.C.

SMALL Manufacturing Business and Drug-stores in Midland town, owing to death of proprietor; good saleable preparations; established connection; stock, fixtures, plant, etc., including printed labels, show-cards, etc., £400, or about; liberal terms. For full particulars address, 106/33, Office of this Paper.

Re BLOOMER FLETCHER & CO., LTD.

BRIERLEY HILL, STAFFS.

THE Receiver is prepared to negotiate for the Sale of this Retail Business, established 100 years, occupying the very best position in the town; double-fronted shop, splendidly fitted, with an average annual turnover of £2,500; immediate possession. Apply, A. E. Percy, Chartered Accountant, Dudley.

£125 for old-established Chemist Business; terms easy, part can be taken by instalments if necessary; good opportunity for energetic man; double-fronted shop, well fitted, in main thoroughfare, surrounded with large population; no opposition; good workable stock, and room for side-lines. Write, 110/4, Office of this Paper.

TO LET.

CRICKLEWOOD BROADWAY.—To Chemists and Druggists.—To Let, commanding Shop premises, with house over, in this important thoroughfare; just built; magnificent opening here for this trade; rent £125 per annum; shop-front and fittings will be arranged for responsible man; advantageous terms offered. Apply, at once, to A. Bretzfelder, Builder, 180 Cricklewood Broadway, N.W.

A SHOP to Let in the North of London where a Chemist's business has been carried on for many years, but owing to the advanced age of the occupier it is for Disposal; it is a capital chance for a small capitalist, as no charge is made for goodwill; rent is low, and free to Michaelmas. All particulars, either personally, of J. Hawes, Sage's, 58-62 Gray's Inn Road, W.C.

EXCEPTIONAL opening for Chemist; attractive new Shop, with first-class living accommodation, occupying choice unopposed position in centre of large growing district, entirely good class and including colleges and high-grade schools; Photographers and Artists' requirements would be excellent Side-lines; rent £38. Phillips, 27 Marlborough Avenue, Reading.

GOOD opening for Advertising Dentist in busy main road thoroughfare, S.W. district; commanding corner position, above up-to-date Chemist; house entirely redecorated; private entrance; splendid opportunity for go-ahead man; moderate rent; references required. Apply, 109/1, Office of this Paper.

SHOPS; splendid positions; suitable opening for first-class Chemist and Druggist. Full particulars, Leeder, 96 High Road, Chiswick, W.

TO Let, Shop and House suitable for Chemist; about one-third of population with no other Chemist near; population of town between 8,000 and 9,000 in winter, three times that number in season; splendid opening for young man starting; 7 rooms and large dry store; immediate possession; rent £30. Apply, 16 Marina, High Street, Herne Bay.

WEST OF ENGLAND.—Exceptional opening for Chemist or Chemist and Dental; growing high-class watering place; very little competition; good prices obtained; situate in best position in the town. Apply, 106/6, Office of this Paper.

FOR SALE.

BOTTLES and Sundries.—E. Bentley & Son are selling off their entire stock at 20 per cent. to 30 per cent. under list prices. 8 and 10 Bath Street, City Road, London.

FOR Sale.—Glass counter-case, 3 ft. by 12 in. by 5 in.; glass wall-case, 8 ft. by 4 ft. by 5 in.; ditto, 2 ft. 10 in. by 5 ft. 6 in. by 4 in.; counter desk, glass case in front, 2 ft. by 2 ft. 4 in. by 2 ft. 6 in.; all mahogany; 5, 6, and 8 ft. counters, mahogany top (drawers and cupboards behind); 7 ft. 3 in. upright mahogany case, 3 ft. high, 4 glass doors; shop clock with mahogany carved support; 2 pear carboys, 2 specie-jars; 14 ft. by 3 ft. window-enclosure; offers wanted. R. Penrose Kernick, Trade Valuer, Cardiff.

OFFERS wanted for mortars and pestles, 2 No. 1, 1 No. 2, 1 No. 5, 1 No. 7, 1 No. 9; blue ointment shop-jars, canopy covers, gold labels, 17 4 lb., 15 1 lb.; shop-rounds, 40, 20, 10, and 5 oz., gilt labels; shop-rounds, ribbed green (Y.G.Co.), recess labelled; 1 5-gru. pill-machine and finisher for three sizes of pills; dispensing-screen, fitted in front with mirror, two side cupboards, sponge-case at bottom, at back with drawers, cupboard, shelving, and lead-lined sink; mahogany desk, fitted with two drawers and cupboard in front. 106/18, Office of this Paper.

PINDAR'S rotary pill-machine, complete, 2 set extra rollers, piping-press, 5 sugar-coating pans (copper), in good condition, a bargain £12; also oxygen cylinder, 12s. carriage paid. Apply, Gates, Bridge End, Upplawmoor, Renfrewshire.

PREPARATION for the Hair (regd.) for Sale; first-class article, fully registered, together with quantity of materials for making; bottles own design; bottle-moulds, etc.; advertising matter; small office and making-up room in centre of Birmingham, containing fixtures; cheap; suitable as Side-line, or beginner with small capital. 104/7, Head Office of this Paper.

URGENT.—"Cream-Vita" Complexion-soap, "Virami" Disinfectants, "Evicto" Nursery Pomade, "Virx" Antiseptic Healing Ointment (reg.), trade-marks, designs, formulas, ad. ideas, goodwill; genuine; big profit-makers; rapid sellers; the lot £100 cash or offers. Whyte, 107 Donegall Street, Belfast.

BUSINESSES WANTED.

COUNTRY Retail Wanted. Particulars as to class of business, house, etc., in confidence, "Iodine" (103 37), Office of this Paper. No agents.

LIGHT Retail Cash Business wanted, with good house attached; Yorkshire or Lancashire preferred, but not essential; net profit not less than £3 3s. weekly; price not to exceed £250. Apply, with full particulars (in confidence) to "Septimus" (106, 4), Office of this Paper.

WANTED, Chemist's Business in country, or market town; returns about £1,000; must bear strict investigation. Apply, giving full details, to "Vera" (104, 31), Office of this Paper. No agents.

PREMISES FOR SALE.

TO Chemists (Manufacturing), Etc.—Deptford.—Splendid Business Premises to be Sold, with vacant possession; the valuable leasehold premises, No. 53 Broadway, Deptford, occupying the finest position in the locality, containing basement, lofty shop and upper floors, and capable of sub-division; price £3,500; £350 cash only required, balance by monthly payments, including interest spread over 20 years if desired, and making a total payment much under rental value; lease 44 years unexpired, at a ground rent of £120 per annum; caretaker on premises. For further particulars apply, H. Johnstone, 25 Moorgate Street, E.C.

PARTNERSHIPS.

PARTNER wanted to work profitable Drug-stores and also develop some promising Wholesale Agencies; advertiser has many years' trade connection, speaks French and German, and has premises in most central position; state experience, qualified or unqualified, age, and capital at disposal; references exchanged and full particulars at interview. Letters, "Prospects," c/o Gibbs, Smith & Co., 10 High Holborn.

UNQUALIFIED Partner as Traveller for private limited company, to call upon small shops with Packed Drugs, Foods, etc., in S.W. England; scope for increase; capital about £500; preference given to smart energetic man with previous experience. Apply, with photo, in confidence, to "X." (94, 103), Office of this Paper.

TENDERS.

GREAT NORTHERN CENTRAL HOSPITAL, HOLLOWAY ROAD, N.

THE House Committee invite Tenders for the supply of DRUGS and CHEMICALS to this Hospital for a period of seventeen months (August 1, 1909, to December 31, 1910).

Tenders should be returned on or before SATURDAY, July 17 next, to the undersigned, from whom forms of Tender and all particulars may be obtained.

The Committee do not bind themselves to accept the lowest or any Tender, and reserve the right to accept the whole or any part of any Tender

L. H. GLENTON-KERR, Secretary.

June 26, 1909.

SITUATIONS OPEN.

3s. 6d. *for* **50** *words or less;* **6d.** *for every* **10** *words beyond, prepaid.*

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

RETAIL.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

BAKEWELL.—Qualified Assistant wanted; outdoors; no Sunday duty; close 2 o'clock Thursdays. Please state age, height, salary required (outdoors), and references, to E. G. Carrington, Chemist, Bakewell.

BARNSLEY.—At once, a reliable Assistant wanted for good-class Retail and Dispensing business; must be a good Dispenser; outdoors. Apply, enclosing photo and stating age, height, experience, and salary required, to J. W. Moorhouse, Pharmacist, Barnsley.

BATH.—Davies & John, Chemists, have a vacancy for a competent Assistant, about 24, accustomed to first-class Dispensing and Retail business; must be strictly sober and well recommended. Give full particulars of experience and state salary (outdoors).

BOMBAY.—Wanted, qualified Assistant, under 25 years of age; passage P. & O. paid out and home; salary first year £172, second year £192, third year £212 per annum; 3 years' agreement certain. Apply, with photo and copy testimonials, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

BOURNEMOUTH.—G. E. Bridge & Co., Ltd., are shortly requiring a qualified Junior as Dispenser; good experience and gentlemanly appearance. Apply, with full particulars, to W. E. Curtis, 128 Old Christchurch Road, Bournemouth.

CAPE TOWN.—Qualified Assistant wanted; under 28 years of age preferred; passage paid out; 3 years' agreement; salary £180 first year, £192 second year, £204 third year (outdoors). Apply, by letter only, "L.," 54 Queen Elizabeth Street, London, S.E.

CHELTENHAM.—Qualified married Assistant wanted, to live at business house; must be accustomed to good-class Dispensing business and have good references. State age, salary required. Address "T. P.," c/o Butcher & Pattison, Cheltenham.

CITY.—Assistant-Manager required, by end of July, with good experience; outdoors; personal interview only. Pierce, Tulley & Co., 36 Great Saint Helen's, E.C.

COLCHESTER.—Improver or Junior; outdoors; under qualified assistant; Light Retail; weekly half-holiday and no Sunday duty; exceptional opportunity for attending Art classes. Marlar, Chemist, Colchester.

FAVERSHAM.—Junior or Improver wanted for a Country business; half-day off weekly; no Sunday duty. Full particulars as to reference, salary, etc., apply to T. J. Thomas, Pharmacist, Faversham.

SITUATIONS OPEN *(continued).*

FOLKESTONE.—Qualified man wanted, end of July, as Manager of business; working-class neighbourhood; outdoors. Apply, with full particulars, stating salary required, to Taylor, Chemist, 101 Dover Road, Folkestone.

FULHAM, S.W.—Wanted, at once, qualified Manager to live on premises. Personal application preferred, but if by letter please state age, salary required, married or single, and latest references to C. Bunker, 30 York Street, Twickenham.

HEREFORD.—Junior Assistant (outdoors) for Light Retail and Photographic business. State usual particulars and salary required to Kemp & Brook, 7 Eign Street, Hereford.

INDIA.—A qualified Assistant wanted; 4 years' agreement; salary £200 first year and additional £20 each year; fare (P. & O. second-class) paid out and home. Apply, with photo and testimonials, to "R. L.," c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

LIVERPOOL.—Qualified Assistant wanted to take charge of branch. Apply, "Apex," c/o Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

LIVERPOOL.—Qualified man wanted for branch; must be reliable, energetic, and good Dispenser; no Sunday nor holiday duties. Usual particulars to MacSymon's Stores, Ltd., Deane Street, Liverpool.

LINCOLNSHIRE.—Qualified Assistant, single, for 3 months; probably permanency; easy hours; no Sunday duty; outdoors; enclose photo and references; state age. Apply, "Statim" (107/12), Office of this Paper.

LLANDUDNO.—Wanted, an Assistant (about 22) for about 3 months, for Light Retail, Dispensing, and Photographic business. Apply, with full particulars, stating salary required (outdoors), to W. A. Roberts, Pharmacist, Llanduduo.

LONDON, W.—Part-time; wanted, a smart Salesman for quick cash trade; hours can be arranged; would suit Medical or Pharmaceutical Student; indoors preferred. Apply, by letter, with full particulars, to Strode, Chemist, 88 Askew Road, Shepherd's Bush, W.

LONDON, W.—Junior Assistant wanted, immediately; unqualified; must be a good Dispenser; age about 22; indoors. Please state salary required, giving full particulars of experience and references in first letter (enclose photo), to J. Maitland & Son, Pharmaceutical Chemists, 10 Chester Place, Hyde Park Square, London, W.

LONDON, W.—Competent, reliable Assistant for good-class Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace, W.

LONDON, W.—Wanted, qualified man for branch business; Retail, Prescribing, and Photographic; outdoors; half-holiday weekly. Apply, by letter in first case, giving age, height, experience, and salary required, to Lewis, 138 High Street, Harlesden, N.W.

LONDON, W.—Wanted, qualified Manager; end May; energetic, capable; good Salesman and Window-dresser; Extractor preferred; good working-class business; comfortable hours; half-day; alternate Sunday duty (2 hours only); outdoors, but dinner and tea provided; good commission and moderate salary; permanency to the right man. Write or call, Challis, Chemist, Southall.

LONDON, W.—Qualified Assistant; outdoors; used to good-class Store business and Photography; whole day off weekly; state experience and salary required. Address, 109/17, Office of this Paper.

LONDON, W.—A competent Assistant required for good-class Dispensing and Light Retail business; outdoors. Apply, with full particulars, age, experience, salary required, references, etc., to "Chemist," 2 Elmwood Gardens, Acton Hill, W.

LONDON, W.—Qualified Assistant; aged 22 to 25; indoors; good-class Dispensing; vacant. State salary and usual particulars, Harding, The Avenue, West Ealing.

LONDON, S.W.—Wanted, immediately, a qualified Assistant; good Dispensing experience. Apply, giving age, experience, salary required, to Stickland & Co., Pharmaceutical Chemists, Cromwell Place, South Kensington, S.W.

LONDON, W.C.—Required, at once, qualified man for 4 weeks' holiday relief; energetic young man with London experience preferred. Apply, Boutall's, Ltd., 150 Southampton Row, W.C.

LONDON, S.W.—Wanted, smart Junior Assistant for Counter with Store experience; easy hours; no Sunday duty; half-holiday weekly. Apply, "Manager," Drug Department, Francis & Son, Ltd., 450 Brixton Road, S.W.

LONDON, W.C.—Wanted, by middle of July, qualified Junior, about 24; outdoors; accurate Dispenser and good Counter experience. Apply, with full particulars, 109/19, Office of this Paper.

LONDON, WEST.—Qualified; indoors; two vacancies in old-established West-end Pharmacy; town experience essential. Personal application, or letter with full particulars, giving height, salary required, etc., to "H. E. R.," 7 Pall Mall East, S.W.

LONDON, N.—Assistant wanted; indoors; hours 8.30 till 9.30, Saturday 11; half-day off weekly; must produce good references. Apply, enclosing photo (if convenient), and state full particulars, together with salary expected, Geo. Daniel, 272 High Road, Wood Green, N.

LONDON.—Youth wanted to put up stock, etc., and assist at Counter when required. Letters should give full particulars as to age, salary, experience, references, and photo (which would be returned), to Guests, Chemists, Upton Park, London.

MAIDENHEAD.—Assistant, about 24; qualification not essential; well up in Dispensing and Photography; indoors. State age, salary, references, and usual particulars, Thompson & Walton, 73 High Street.

MARGATE.—Assistant, outdoors, in old-established Dispensing business, accustomed to Dispensing; courteous and obliging; qualified preferred. State usual particulars as to age, height, and salary required, with photo, Wootton & Son, High Street, Margate. Gentlemen receiving no reply within 48 hours respectfully declined.

NATAL.—Qualified Assistant wanted for Maritzburg; young man; good appearance, good manner, industrious; one who has had experience in provincial town preferred; 3 years' agreement to be signed; second-class passage paid; salary £180, £192, and £204 per annum for first, second, and third years respectively. Apply, stating particulars of experience, to "F. E. T.," c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

OLDHAM.—Wanted, qualified Assistant; outdoors; state age, height, experience, references, and salary required, with photo. Address, 107/20, Office of this Paper.

OSTENDE.—Ach. De Cook, Pharmacie Centrale, Belgium, requires an Assistant for the summer season; must be thoroughly acquainted with International Pharmacy. Apply, with references, to above address (urgent).

SHANGHAI.—An Assistant wanted, possessing the Minor qualification, between 23 and 30 years of age; good salary; good prospect for man willing to work. Send photo and full particulars to "Assistant," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, London, E.C.

STROUD (GLOS.).—Locum wanted for about 8 weeks; start soon. Send particulars, with salary and references, to S. Coley, Chemist, Stroud.

WALTON-ON-THE-NAZE.—Assistant wanted, indoors, qualification not essential, about third week July for season, for Light Retail and Dispensing, with some Photography. Apply, with full particulars, and photo if convenient (to be returned), to F. R. de Lisle, Walton-on-the-Naze.

WORCESTER.—Temporary Assistant required for the month of August; outdoors. State salary required and enclose photo (which will be returned), H. J. Aubrey, The Cross, Worcester.

YORKSHIRE, WEST RIDING.—Wanted, at once, smart youth (16 or 17), with slight knowledge of Store trade, to look after stock and assist at Counter; to live in. State age, references, and salary required to "Sundew" (106/24), Office of this Paper.

CHEMIST'S Assistant.—Wanted, for Ireland, a Junior with Minor qualification; must be a neat and accurate Dispenser, a good Stockkeeper, and accustomed to making Galenical Preparations. Apply, with full particulars, to "T. R.," c/o Davy Hill & Hodgkinsons, Ltd., 64 Park Street, Southwark, S.E.

IMPROVER or Junior; must be highly recommended; easy hours; outdoors. State salary required and when disengaged, 109/15, Office of this Paper.

JUNIOR Assistant required; must be quick and of good address. Apply, stating age, salary required, and experience, to "Carfax" (87/11), Office of this Paper.

JUNIOR or Part-time man required. Gilbert Hill & Co., 319 King's Road, Chelsea, S.W.

LOCUM, must be qualified, required for 4 weeks (July 19 to August 14 inclusive). Apply, stating salary required, to the "Pharmacist," Great Northern Central Hospital, Holloway Road, London, N.

LOCUM; qualified; July 15-30. State full particulars in first letter as to age, experience, and salary required, etc., to S. A. Noble, Pharmacist, South Croydon.

MANAGER wanted for good-class branch, capable of increase; married, to live on premises; must be a worker and accustomed to modern business methods; steady and trustworthy; good opening for a smart and capable business man. Give full particulars of experience, age, etc., to R. H. Tootill, Pharmaceutical Chemist, Altrincham.

MANAGER required by old-established Chemist in the West-end; an energetic man with good business abilities required; must be qualified and accustomed to a good-class business and good Counterman. Apply, by letter with all particulars, "J. H. R.," c/o Scripps's Advertising Offices, 13 South Molton Street, W.

QUALIFIED Assistant, about July 6; in or out doors (preferably indoors); must be well up in all branches of the business; good salary to suitable man. Fullest particulars as to age, height, reference, and photo, Stouham & Son, Maidstone.

QUALIFIED Manager wanted for branch in middle-class district; Store or brisk Retail experience; own Specialities; under 35 preferred. Apply, 105/40, Office of this Paper.

QUALIFIED Manager wanted for the Potteries; young, smart, energetic; good all-round experience; give full particulars, references, salary expected, etc.; good-class Mixed business. 107/27, Office of this Paper.

QUALIFIED Manager, in about 6 weeks; branch; centre large provincial town; salary £2, house, and half-share profits; must be young, smart, used good-class trade; only men with real business ability and power to attract and hold trade need apply. 106/28, Office of this Paper.

QUALIFIED Assistant wanted for West-end business; aged about 25; outdoors; good and progressive salary. 92/43, Office of this Paper.

QUALIFIED Manager for Retail Branch of small Wholesale and Retail Chemist's in S.W. England (private company); will be required to invest about £500; high-class cash business; preference given to young, energetic man. Apply, enclosing photo and particulars, to "I." (94/13), Office of this Paper.

QUALIFIED Assistant (indoors) wanted in London, S.E.; must be a pushing Salesman, capable of increasing returns; salary 30*s.* weekly and commission. Apply, 110/2, Office of this Paper.

REQUIRED, for the months of July, August, and September, an English Pharmaceutical Assistant speaking French as much as possible; 150 francs per month (one hundred and fifty francs per month), board and lodging. Apply to Larcher, Pharmacist, Etretat, France.

ROYAL HOSPITAL FOR DISEASES OF THE CHEST, City Road, E.C.—Dispenser required (ladies are eligible); must have the Major or the Minor Pharmaceutical qualifications; commencing salary £100 per annum, increasing £5 per annum to £120; similar experience a recommendation. Applications and testimonials to be sent to the Secretary at the Hospital.

TAYLORS' DRUG CO., LTD., have a few vacancies for qualified Chemists; no Sunday duty. Kindly send full particulars respecting experience, age, and salary required, and also send recent photo, to the Superintendent, Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

UNQUALIFIED married man wanted, South Coast, able to manage in absence of principal; must have initiative, new ideas; a good Window-dresser; used to Store trade; commission on profits, good salary, and permanency to suitable man; able to Extract Teeth preferred, but not essential. State experience, salary required, and full particulars, to "Statim," 18 Mount Zion Place, Brighton.

WANTED, Assistant; outdoors; Counter, Dispensing, Window-dressing; hours 8.30 to 7.30, Saturdays 10; no Sunday duty; salary to commence 30*s.* per week. Apply, Bellamy & Wakefield, Pharmaceutical Chemists, Easy Row, Birmingham.

WANTED, at once, for 9 months at least, qualified man, outdoors at present; abstainer, and one used to country business preferred; must produce highest references. Apply, giving full particulars and stating salary required, to A. B. Holgreaves, Church Fenton, Leeds.

WANTED, about the beginning of September, a qualified Assistant for good-class Dispensing business situated in inland watering place; salary to commence £100 a year (indoors); applicants will please state age, height, and full particulars as to previous experience and enclose photo (to be returned). 106/32, Office of this Paper.

WANTED, at once, Junior Assistant; well up in Dispensing and Photography. State age, height, salary (indoors), names of last two employers, 107/2, Office of this Paper.

WANTED, immediately, Manager; qualified; energetic; used to Store business. Send particulars and state salary required, 109/01, Office of this Paper.

WANTED, smart Junior; outdoors. State height, references, salary, photo, Rees, Pharmacist, Barry Dock.

IMPORTANT to Assistants.—5*s.* 6*d.*; bedroom, and use of sitting-room, dining-room, billiard-room, 10-ft. table; piano; bath (h. and c.); tennis; board as required. Mrs. Hosier, 36 Fitzroy Square, London, W.

WHOLESALE.

JOHANNESBURG.—Assistant wanted for Wholesale Druggists' warehouse; young man, smart, who has had experience in General Wholesale business; 3 years' agreement; salary £14, £15, and £16 per month for first, second, and third years respectively; second-class passage paid. Apply, stating particulars of experience, to "D. K.," c/o John Murdoch & Co., 52 Leadenhall Street, E.C.

LONDON, S.W.—Required, man (young) with knowledge of Proprietary Articles and Druggists' Sundries. Address, giving particulars and salary required, H52, Sell's Advertising Offices, Fleet Street, E.C.

A THOROUGHLY capable Foreman required, with first-class experience of Packed Goods, to take charge of a department in which female labour is employed, in London Wholesale Druggist's. State full particulars and wages required to 94/12, Office of this Paper.

ANALYTICAL Chemist wanted; one used to Fertilisers preferred. Address, stating experience and salary required, "H. 56," Birchall's Advertising Offices, Liverpool.

CORRESPONDENCE.—A vacancy occurs in a London Wholesale house for a gentleman able to conduct Correspondence; preference will be given to well-educated applicants, with Retail training and some knowledge of Wholesale; qualification is not essential. Apply, stating age, particulars of experience, and remuneration required, to "Corres" (93/14), Office of this Paper.

ENERGETIC, smart Representatives wanted for first-class Proprietary Article, well introduced and without competition; can be carried as side-line in pocket; references required. Address, "Proprietor," 15 St. Margaret's Road, Oxford.

JUNIOR Wet-floor Counter hand required by a manufacturing firm of London Wholesale Druggists. Address, giving particulars as to experience, wages expected, etc., to "Tincture," c/o Street's, 30 Cornhill, E.C.

JUNIOR Invoice Clerk wanted for the office of a London Wholesale Drug-house; must have some knowledge of the trade. Address, stating previous experience and salary required, to "Specials," c/o Streets, 30 Cornhill, E.C.

REPRESENTATIVE.—An old-established Pharmaceutical house require the services of a fully-qualified gentleman to interview the Medical profession; previous travelling experience and knowledge of Lancashire and district preferred; the position is important, and the strictest inquiries will be made in the selection, and only first-class applicants will receive consideration. Application (hand written), enclosing photograph, to "President" (105/29), Office of this Paper.

SALES Manager for Australia wanted by agency firm representing Proprietary goods; Pharmaceutical and Surgical Dressings leading line; must be a good Salesman with thorough knowledge of the trade, and competent to create business; undeniable references required. Address all particulars to "Principal," Fassett & Johnson, 31 and 32 Snow Hill, E.C.

TRAVELLER wanted for country by a firm of Toilet Soap and Perfumery Manufacturers; salary, travelling expenses, and commission; must be a fully competent man, with experience in own name Soaps and Perfumery, and have good connection and undeniable references. Address, "H." (73/61), Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid.

RETAIL.

LOCUM; 21; unqualified; disengaged; highest references. Walker, 54 Beam Street, Nantwich.

JUNIOR; 20; 4½ years' good-class Dispensing experience. Monk, 19 Woodbine Road, Burnley.

LOCUM; town or country; qualified; disengaged. West, 47 Vicarage Road, Leyton, N.E.

MANAGER or Locum; all-round experience, including Dentistry. 553 Bearwood Road, Birmingham.

LOCUM or Manager; qualified; first-class experience. "Pharmacist," 6 Arthur Street, Loughborough.

ASSISTANT; 27; unqualified; Retail or Doctor's Dispenser. Innes, 10 Roseneath Road, Clapham Common.

PART-TIME mornings or evenings; engaged afternoons; moderate. "Velox," 137 St. George's Road, Southwark.

DISENGAGED 11.30 to 5.30 daily; Dispensing, Secretarial, or Agency; Chemists or Surgeons. 104/50, Office of this Paper.

JUNIOR (20), knowledge Dispensing, Photography, desires further Counter experience. Clark, 6 Cherry Street, Birmingham.

LOCUM.—Mr. A. W. Golightly, 1 Manila Street, Sunderland, is open to engagement in Locum work during the holiday season.

LOCUM or permanent; 12 years London, country, and Continent; Photographics, Optics; disengaged. Burrell, Sturton & Howard, Ely.

LOCUM, about end of July; week or more; moderate terms for country or short hours; qualified. "Londoner" (105/10), Office of this Paper.

LOCUM.—Pharmacist, experienced, just returned from Continent, booking engagements for season. "Continental" (92/2), Office of this Paper.

CONTINENT or London; qualified; 26; outdoors; fluent French; good experience home and Continent. D. Beauverd, 27 Cliftou Crescent, Folkestone.

LOCUM, unqualified, open to book engagements; Counter, Photographic, Optical, and used to Dentistry; experienced. Crossland, Watergate, Pontefract.

LOCUM; unqualified; July 11 to August 1; London or provinces; Dispensing, Prescribing, Photography; excellent references. Rock, 72 Fentiman Road, S.W.

JUNIOR; good English Pharmacy; some Dispensing essential; time for study; well recommended; 22; tall; abstainer. Evans (corner shop), Llanfair, Welshpool.

AT liberty; Assistant; 28; single; best references; capable Dispenser; well up in high-class Pharmacy work. Nicholson, 65 Stephens Road, Tunbridge Wells.

JOHN PYE, late of 25 Josephine Avenue, will be open to an engagement after August 21; shop or hospital. John Pye, 62 Lyuette Avenue, Clapham Common.

JUNIOR; 20; excellent all-round experience; Photography, up-to-date; now disengaged; good references; outdoors preferred. "Wales," The Slate Works, Portmadoc.

SURGEON'S Dispenser or Locum; unqualified; age 38; single; Prescriber and Extractor; good references; small salary. Address, "Medicus," 98 Borough Road, London, S.E.

ASSISTANT; expert Counterman, Window-dresser, Dispenser; tall; unqualified; accustomed to good-class trade; thoroughly experienced; good references. 105/13, Office of this Paper.

LOCUM, qualified, experienced, open for engagement. Whitehouse, 92 Knighton Lane, Leicester.

WALES.—Locum; permanency; 16 years' experience. Jones, 7 Dyffryn Street, Pontlottyn, Glam.

DISENGAGED; unqualified; several years' experience. R. M. Lelean, 11 Princess Road, Leicester.

UNQUALIFIED; 36; Extractor, Prescriber; good references. "F.," 57 Firth Park Road, Sheffield.

ASSISTANT; unqualified; married; 30; tall; excellent references. Hannath, 39 Parson's Mead, Croydon.

ASSISTANT; 30; Mixed business; can manage; good references. 8 Mason Street, Edge Hill, Liverpool.

JUNIOR; Locum or Part-time; 6 years' first-class experience. "Pharmakon," 30 Oxford Road, Ealing.

ENGAGEMENT wanted for about 12 days; qualified; aged 40. "F. C.," Inglenook, Shrubbery Avenue, Worcester.

VACANT.—Junior; unqualified; Window-dresser and Counterman; excellent references. 95 Waterloo Road, Aldershot.

UNQUALIFIED; good Dispensing, Retail, and Photographic experience; good references. "S.," 46 Talbot Street, Southport.

ASSISTANT or Branch; unqualified; 32; Agricultural, Dispensing, Prescribing. "Opus," 87 Grange Street, Burton-on-Trent.

LOCUM, Manager; Major; 39; good references; experienced. "T.," Laurel Cottage, Stamford Brook Road, Shepherd's Bush.

HOLIDAY engagement as Improver or Assistant; age 19; good knowledge of Dispensing and Photography; willing. Tottle, Chemist, Epsom.

LOCUM or otherwise; tall; smart; energetic; single; young; good all-round experience. "Qualified," Pilkington, Chemist, Brooklands, Manchester.

LOCUM or otherwise; competent Assistant, Prescriber, etc.; married; disengaged in a few days; age 39. "Rhei," 99 Victoria Road, Peckham.

LOCUM or Part-time; qualified; active, obliging; abstainer; Fridays and Saturdays whole days and any morning free. "Borax," 535 Holloway Road, N.

PERMANENCY; 14 years' every experience, London and provincial; highest references; unqualified. "Civility and Courtesy," 274 High Street, Rochester.

YOUNG Swiss Druggist, speaking English, French, and German, seeks situation in London firm; good appearance. Apply, "T.," 59 Christchurch Street, Ipswich.

STUDENT (21), good experience, requires a few weeks' engagement during College vacation; disengaged 12th; full or part time. Hitchcock, Greenhill Lane, Alfreton.

MANAGER (middle-aged), active, vast experience, requires temporary appointment, with view to succession or Partnership; London preferred. Full particulars to "X." (109/30), Office of this Paper.

DISPENSER; young lady requires post; Hall qualification; 4 years' experience; excellent testimonials; disengaged July 6; live in or at home. "A. S.," "Ambleside," Carshalton Park Road, Carshalton.

ASSISTANT or Manager; unqualified; smart Counterman; first-class Store business; experienced all branches; at liberty any date; aged 26; height 5 ft. 7 in. "Rhei," c/o Thomson, Chemist, Tudor Road, Cardiff.

LOCUM; qualified; disengaged until July 24. Hobson Key, Brook Estate, Monmouth.

LOCUM or Manager; qualified; good experience. "Alpha," 1 Oak Villas, Hendon, W.

LADY Dispenser; disengaged August; qualified; good testimonials. "T.," 8 Highbury Hill, N.

LOCUM or permanency; qualified; married. "Chemist," c/o 150 Wolverhampton Road, Walsall.

LOCUM; 36; disengaged; qualified; good experience. "Chemist," 4 Aubrey Street, Everton, Liverpool.

LOCUM; qualified; varied experience; disengaged July 5 to 30. "G.," 47 Seaside Road, Eastbourne.

LOCUM; qualified; experienced; disengaged July 22-30. Moores, 131 Hadfield Street, Walkley, Sheffield.

LOCUM; a few vacant dates for holiday duty; good references. Apply, Follows, M.P.S., Tunstall, Staffs.

LOCUM; Dispenser to hospital; good hospital experience. "Tabac" (109/11), Office of this Paper.

LATE Manager, recovered from accident, requires light work. "A.," 3 Clarence Gardens, Regent's Park.

LOCUM; smart appearance; 23; unqualified; highest references. "Disengaged," 241 Lincoln Road, Peterborough.

LADY Dispenser; disengaged; qualified; Locum or permanent; excellent testimonials. 107/28, Office of this Paper.

ASSISTANT (23), abstainer, 7 years' experience, desires berth for season, or permanency. Alexander, Y.M.C.A., Croydon.

MANAGERSHIP, with view to purchase; good-class provincial preferred; returns about £1,000. Apply, 106/5, Office of this Paper.

LOCUM or Manager; qualified; disengaged as Locum from July 18 to August 14. "Pharmacist," 60 High Street, Stoke Newington, N.

ENERGETIC and willing; as Assistant or Manager; excellent references; unqualified; 30. "Willing," 50 Fleeming Road, Walthamstow.

MINOR Student desires outdoor situation near college; London preferred; competent take charge; disengaged. 105/39, Office of this Paper.

LIVERPOOL or District.—Part-time, evenings or Sunday; Counter, Dispensing, etc.; aged 22. "Rhei," 28 Empress Road, Kensington, Liverpool.

COMPETENT, energetic Assistant, Prescriber, Extractor; disengaged in few days; married; age 39. "Squills," c/o Gadd, Chemist, Vauxhall.

ASSISTANT; Locum, or permanent; London or near; experienced; age 49; salary 36s. week. "Reliable," 17 Westbury Avenue, Wood Green, N.

PART-TIME; mornings or afternoons; unqualified; 23; experienced; Dispensing, Counter, Photographic; good references. 108/36, Office of this Paper.

PART-TIME, Relief, or Night Duty required by Minor Student; first-class experience and references. Apply, "Student" (108/29), Office of this Paper.

MANAGER or Senior; 23; qualified; permanency; wide experience; excellent references; Brighton or near neighbourhood. "Sussex" (106/3), Office of this Paper.

ASSISTANT; unqualified; Prescriber, Extractor; abstainer; single; outdoors; country preferred; London experience. "Protargol" (106/34), Office of this Paper.

MANAGER or Senior; 26; excellent all-round experience; undeniable references; abstainer; West of England; disengaged early August. "Pharmacist," 19 Holland Road, W.

LOCUM, qualified; 29; Dispensing, Stores, Optical, and Agricultural experience; abstainer; disengaged July 12 to 22, from August 9. "M.P.S., F.S.M.C.," 53 Victoria Road, Bridgwater.

DISENGAGED; Manager or Assistant; 36; tall; excellent Counterman, Prescriber, Extractor, Photography, Optics, permanency; Kent preferred. "James," 2 The Golfs, New Romney, Kent.

JUNIOR wants permanency with view to qualifying; Manchester or Liverpool district preferred; in or out doors; aged 25; height 5 ft. 9 in.; teetotaler and non-smoker. S. Wright, 40 Westgate, Burnley.

ADVERTISER, 12 years where apprenticed, then 15 years as Traveller, since as Manager suburban business, desires appointment as Inspector, Buyer; no objection to relief duty occasionally. 107/14, Office of this Paper.

EXPERIENCED Pharmacist (35) desires permanency; outdoors; will accept reduced salary for short hours (or if about 2 hours off daily could be had); abstainer; highest references (one of 7 years); 19 years' first-class experience; disengaged. "Pharmacist," 30 Lingard Road, Northenden, Cheshire.

WHOLESALE.

TRAVELLER; aged 27; smart appearance; disengaged; good references. "K." (105/19), Office of this Paper.

PORTER (26) requires situation; Wholesale or Retail; 8 years' experience. "F. D.," 53 Tasso Road, Fulham.

AS Clerk; young man requires situation; smart, energetic; experienced; good references. 106/26, Office of this Paper.

YOUTH (aged 16) seeks position in Laboratory; willing to make himself useful. "W. G. K.," 80 Third Avenue, Manor Park, Essex.

WANTED, a non-competitive house to share expense of Traveller; sound connection South, East, and West. "Salix," 4 Markham Square, S.W.

TRAVELLER; disengaged; take any district, preference for Midlands or North; smart Salesman; first-class references. 109/26, Office of this Paper.

LABORATORY Manager; Major; first-class Manufacturing and Analytical experience; accustomed to control. "Galenicals" (105/5), Office of this Paper.

CHEMIST, D.Sc. (aged 30), thoroughly experienced in Analysis and Making-up of Fine Chemicals, desires permanent situation. "Cinchona" (104/13), Office of this Paper.

YOUNG qualified Chemist desires berth as Demonstrator in Chemistry or similar position; Board of Education certificates and good references. 108/37, Office of this Paper.

REPRESENTATIVE shortly disengaged; 12 years' connection among the best men in Lancs and Yorks; Specialities or Packed Goods; highest references. 107/18, Office of this Paper.

GENTLEMAN (26), with Wholesale experience, desires Clerical post with a good house; excellent references can be produced. Address, "Irisin," 38 Beaconsfield Road, Cannon Hill, Birmingham.

ADVERTISER seeks engagement as Manager or Representative to a Toilet company; thoroughly conversant in the manufacturing and packing of Toilet Specialities. "Toilet" (106/7), Office of this Paper.

SPECIALIST in Packed Goods requires a department; 10 years' experience in manufacturing, organising, creating sales, and introducing Novelties; payment by results. "Carmine" (109/35), Office of this Paper.

TRAVELLER, with really valuable connection in North of England and Scotland, seeks re-engagement, either exclusive or good Agencies; can satisfactorily introduce new lines. "Guild" (107/23), Office of this Paper.

TRAVELLER desires additional Agency; Specialities, Proprietaries, or Bottles; established connection (Doctors); portion expenses, commission; North-West Counties. "Unguentum" (107/7), Office of this Paper.

TRAVELLER, with good all-round experience and sound connection, requires situation, part expenses and commission, on South Wales ground and adjoining counties; Soaps, Surgical Dressings, Lozenges, etc. 106/12, Office of this Paper.

AS Traveller or Agent for South Coast; smart, tactful, up-to-date business man (Chemist) is open to accept an engagement with good Sundry, Soap, or Drug house on commission terms. Firms requiring a real live representative write to "Tact" (103/3), Office of this Paper.

GENTLEMAN, good appearance, address, studied Hospitals, abstainer, excellent interviewer, linguist, accustomed interview Doctors, Chemists, Institutions, desires immediate position Representative; London, provinces, Colonies, abroad; moderate salary; expenses. "Rep.," 47 King's Cross Road, London.

CHEMICAL Engineer (aged 29), Englishman, with Continental education (Zurich), experience in Continental laboratories and works, having occupied administrative position in German firm, is desirous of finding suitable situation in Great Britain; four languages perfectly, and good knowledge of Office work. Address, "Chemist," Berry's Advertising Agency, Ltd., 180 and 181 Fleet Street, London, E.C.

ENGLAND or Abroad.—Pharmacist (31), single, energetic, requires position as Traveller, Representative, or in international office, Laboratory or Export department; first-class Retail-Wholesale English and Continental experience; excellent references; exceptional knowledge of languages; shortly disengaged. "Pepper," 8 Rue d'Argenteuil, Paris.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, 30 Tranquil Vale, Blackheath, S.E. Telephone 81A Lee Green.

SHARES FOR SALE (free of commission, subject).—20 Apollinaris Ordinary, 68*s.* 9*d.*; 200 Allen & Hanbury "A" 6 per cent. Preference 24*s.* 10½*d.*, 170 6 per cent. "B" Prefs. 24*s.*; 100 Idris "A" Ordinary, 3*s.*; 100 Lewis & Burrows 6 per cent. Prefs., 12*s.*; 100 Ilford Ordinary, 13*s.* 1½*d.*; 100 Quinine Bitters, 11*s.*; 25 A. J. White Ordinary 2*s.* 6*d.*, 30 Preference 11*s.* 9*d.*

WANTED (subject).—Camwal Ordinary 1*s.*, Preference 6*s.*; 20 Evans Lescher Preference £5.

List of shares for sale and wanted sent free on application. Bankers, London and County. Established 1898.

SECOND-HAND SHOPFITTINGS.—Condition excellent, and will be re-polished as new; mahogany counter with glass cases in front, 18 ft. long, price £10; 10 ft. 6 in. mahogany wall-case, in two heights, with mirror recess in centre, £12 10*s.*; 17-ft. mahogany serving-counter with glass cases in front, £9 15*s.*; 10-ft. mahogany wall-case, plate glass, with plate-glass fronted sponge and sundries drawers under, £15; several other useful bargains; also complete set of mahoganised fittings suitable for branch, £30. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

WINDOW-FITTINGS (Second-hand).—3 rows plate-glass shelves, with fittings complete, 3 ft. long 45*s.*, 6 ft. 85*s.*, 8 ft. 110*s.*; 6-ft. upright dispensing-counter, mirror centre, £8; upright counter-case, 3 ft. by 2 ft. by 2 ft., £5; 2 2-gal. swan-neck carboys, 30*s.*; 12-ft. side fittings, lockers, drawers, shelving and cornice, £12; wall-cases, 6 ft., £8; desk and case, £2; 8-ft. counter-case front, £5 10*s.* Send for list, Treble & Co., Complete Chemists' Fitters, 3 Great Tower Street, London, E.C.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. RUDDUCK & CO., 262 OLD STREET, E.C.

TO APPRENTICES, JUNIORS, ETC.—If you wish to pass the Preliminary quickly and with little trouble, write to Mr. Charles Harker, who will coach you by post; thorough systematic teaching; numerous successes in 3 and 6 months; special attention given to those of neglected education; 85 per cent. recent successes; terms very moderate. Charles Harker, 239 Chapter Road, Cricklewood, London, N.W.

PEARS' SOAP.

IN THE SHERIFF COURT OF RENFREW AND BUTE.

PEARS *v.* JACK & SON, PAISLEY.

NOTICE OF INTERDICT OR INJUNCTION.

IN an action instituted by A. & F. Pears, Ltd., of 71/5 New Oxford Street, London, W.C., against James Jack & Son, Licensed Grocers, of The Cross, Paisley, alleging that James Jack & Son had been in the habit, when asked for "Pears' Soap," of supplying to customers soap either of their own manufacture or of manufacturers other than of A. & F. Pears, Ltd. (Pears' Soap), and got up by them in the same manner as "Pears' Soap" was issued to the public, the Court interdicted James Jack & Son, their salesmen, and others acting on their authority, from selling or offering for sale to customers asking for "Pears' Soap" or "Pears' Unscented Soap" any soap other than that manufactured by A. & F. Pears, Ltd., without expressly stating that the same is not "Pears' Soap."

Costs were also awarded.

Dated June 8, 1909.

GUMMED PRICE TICKETS
1/3
Crimson ground, white figures.
Stocked in all usual prices up to 21/-, each price handed separately in hundreds.
The Midget, 9d. per 1,000
The Magnum, 1/6 " assorted 10 prices.
Full illustrated list of Blanks for use with these tickets free on application.
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DUDLEY & Co., Ticket Writers & Printers, Holloway, London

"YOUR ATTENTION JUST ONE MINUTE"
Are you interested in Business building? Would you like to Increase the sale of your own Specialities, number of Customers, show the Public that you are up to date in every way? If so, do it by Systematic advertising, attractive window displays, good ideas, not by catchpenny methods. Booklet "How to Increase Your Business," will be sent post free to all Pharmacists who apply on receipt of post card. This explains my Business-pulling System.
J. R. B. ALLISON, Pharmacist & Business Specialist, RETFORD.

College Notes.

BATH COLLEGE OF PHARMACY.—The students of this West of England college journeyed to Conkwell and Worleigh on a botanising excursion on June 28. The beautiful scenery of the district was well enjoyed, and a fine collection was made of the profusion of botanical specimens in which the district abounds.

SOUTH OF ENGLAND COLLEGE OF PHARMACY.—Mr. Lucas's students visited Messrs. Parke, Davis & Co.'s laboratories at Hounslow on Wednesday, June 23, all the processes being inspected, and after tea in the Club dining-room Mr. Maben delivered a lantern-lecture dealing with the home laboratories at Detroit. Mr. H. J. Fisk took a photograph of the company, who warmly acknowledged their appreciation of the firm's generosity.

WESTMINSTER COLLEGE OF PHARMACY.—The students made their last visit of the session to Kew Gardens, on June 24, an occasion on which to indicate their high appreciation of the unsparing efforts of the Principal (Mr. G. S. V. Wills) on their behalf. In spite of the inclement weather there was a large attendance. A presentation was made to Mr. Wills after tea had been discussed at the Boat House Hotel.

Coming Events.

Notices for insertion under this heading should be received by the Editor on Wednesday of each week.

Wednesday, July 7.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Thursday, July 8.

Proprietary Articles Trade Association, Anderton's Hotel, Fleet Street, London, E.C., at 3 P.M. Annual meeting.

Chemists' Defence Association, Anderton's Hotel, Fleet Street, at 4 P.M. Annual meeting.

West Ham Association of Pharmacists. Afternoon ramble. Train leaves Plaistow at 2.44 P.M. for East Hornden, whence the party will walk to Heron Gate.

THE annual picnic of the Leeds Chemists' Association will take place on July 14 to Middlesmoor. Train (N.E.R. saloon) leaves for Pateley Bridge at 12.55 P.M. Tickets (4*s.* 6*d.* each) from Mr. J. R. Bentley, Hon. Secretary, 85 Kirkgate, Leeds.

Exchange Column—Bargains.

TERMS.

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No Advertisement inserted for less than 6d.

FOR DISPOSAL.

APPARATUS.

ABOUT 20 lbs. douche tubing; as new; 6*s*. lb. Stamp for sample, GUESTS, Chemists, Upton Park, London, E.

LABORATORY table for sale, 17 ft. by 3 ft., fitted with slate top, cupboards, drawers, etc.; nearly new. "SECRETARY," 4 Euston Buildings, London, N.W.

BOOKS AND PERIODICALS.

WHAT offers for 6 years' complete, clean *C. & D.*, with *Diaries*? TAYLOR, Welbeck Road, Birkdale, Southport.

ROSCOE & Lund's, Stainer's, and Jago's "Chemistrys," White's "Chemical Calculations," Everill's "Physics"; 5*s*. to clear. GRIFFITHS, 41 Ladbroke Road, W.

45 SOUTHALL'S Minor Mat. Med. specimens on mounts, 20 by 12, clean, 7*s*. 6*d*.; Green's "Botany," vol. i., 2*s*. 6*d*.; Wills' "Mat. Med.," 2*s*. HUGHES, 53 Penn Road, Holloway.

BOOKS.—Blyth's "Foods: Compos. and Analysis," Sutton's "Volumet. Analysis." Witthan's "Chemistry," Dittmar's "Exercises in Qualit. Analysis," Bloxam's "Chemistry." Bloxam's "Laboratory Teaching," and others. CAMMACK, Wolseley Road, St. Helens, Lancashire.

DENTAL.

DENTAL lathe, chair, and show-case specimens. "DENTALIS," 34 Trinity Street, Boston.

DRUGS AND CHEMICALS.

GLYCERIN (over-contracted).—Can spare 5 56-lb. unopened, new tins, No. 1, guaranteed B.P.; what offers, all or part, carr. forward, including tins? "LANCS" (107/34), Office of this Paper.

FORMULÆ.

FORMULA for sale.—Vet. medicines, all kinds. FRANCE, 42 Vartry Road, London.

LIME-CREAM; inseparable; up-to-date formula; price 2*s*. "RELIABLE," 72 Grosvenor Road, Twickenham.

OPTICAL AND PHOTOGRAPHIC.

ELEVEN dozen pairs lenses, lens-measure, also frames; the lot 70*s*. "OPTIMUS" (105/24), Office of this Paper.

ONE microscope, by Crouch, on stand with fine and coarse adjustment, substage condenser, reflector, stage pliers, 3 eye-pieces, 5 objectives, 4, 1, ½, ¼, and 1/10th in.; polariscope lamp and shade, Aylward's concentric table, cabinet for 6 dozen slides with 23 mounted objects; also micrometer, pliers, and cover glasses; good condition. Write, COLEY, King Street, Stroud.

PROPRIETARY ARTICLES.

OVERSTOCKED.—20 doz. 1*s*. Ozonia bath salt, 6*s*. dozen; 4½ doz. 6*d*. Castle brand dyes and hat polish 6*d*., 3*s*. dozen; 7 dozen 1*s*. Levador gold enamel, 5*s*. dozen. PEAKE, Chemist, Hertford.

SHARES.

SHARES for Sale. See page 66.

SHOP FITTINGS.

SMALL soda-fountain for sale, complete, good condition; 2 syrup taps; cheap. Apply, MATTHEI, Chemist, 12 Cullum Street, E.C.

MISCELLANEOUS.

"CONSOL" automatic aërator and syphon-filler; new May 1908; perfect. Particulars and price, DAY, 5 Prince's Road, Wimbledon.

ADJUSTABLE seat and back armchair, 30*s*.; also couch, 21*s*.; roll-top writing-desk, 50*s*.; warming-pan, 10*s*. DAVIS, 52 Station Road, Wood Green.

FOUR dozen Keene's corn-cure, 4*s*. 6*d*. doz.; 3 Coleman's Nervelettes, 2*s*. lot; 2 lb. chlorodyne 1885, at 2*s*.; cash or exchange. PRATT, Pharmacist, Cleckheaton.

OFFERS.—3 doz. Keene's corn-cure, 1 doz. laxative bromo quinine, 1 doz. Wood's 6*d*. tooth-paste, 3 doz. Lion Japanese tooth-powder, 1 doz. Cleaver's toilet-powder, 1 gross 2*d*. small-tooth combs, 1 gross 1*d*. corn-plasters, 1 gross 1*d*. dental-enamel, ½ doz. 1*s*. Javol hair-wash, 1 Winchester tinct. valer. am., 3 doz. pomade vaseline, 5 gross 1*d*. foot-powder; all clean, good condition; c. paid. APLIN, Exeter.

WANTED.

SECOND-HAND syphons in good condition wanted. PHILLIPS, Pharmacist, Tadworth.

ELECTROZONE reputed quarts; 2*s*. 6*d*. doz., f.o.r. FORSTER, Chemist, Seaham Harbour.

PERSONAL weighing-machine; good condition. State size, make, and price, CATTELL, Sutton Coldfield.

SOUTHALL'S materia medica cabinet; good condition and cheap. PEARSON, Town Dispensary, Burton-on-Trent.

DISPENSING-SCALES, utensils, anything useful; exchange Bullseye camera; surplus stock. LOBB, Willesden.

MINOR, Major, Chemists' books.—Send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

ADDRESSES WANTED.

NAME of makers of levigated fullers' earth. 104/5, Office of this Paper.

Where to Study.

The following educational institutions are advertising in this issue:

Muter's (South London) School of Pharmacy, 186 Clapham Road, London, S.W.

London College of Pharmacy, 323 Clapham Road, London, S.W.

Liverpool School of Pharmacy, 18 Colquitt Street, Liverpool.

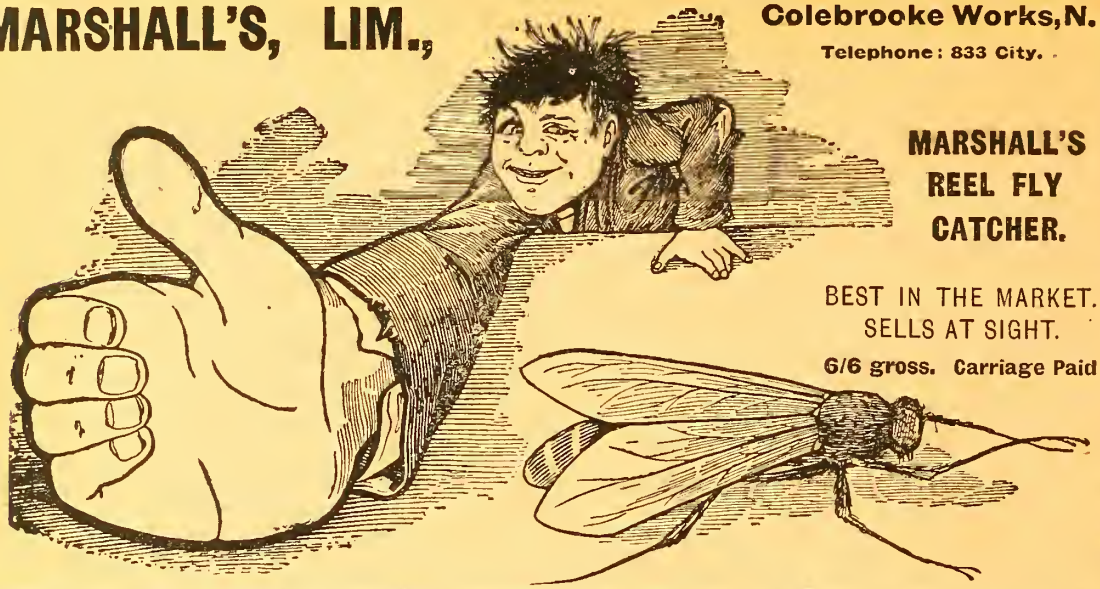
North of England School of Pharmacy, 55 Northumberland Street, Newcastle-on-Tyne.

Bath and West of England College of Pharmacy, Cleveland Place, Bath.

MARSHALL'S, LIM.,

Colebrooke Works, N.

Telephone: 833 City.



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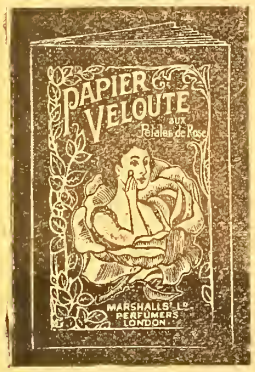

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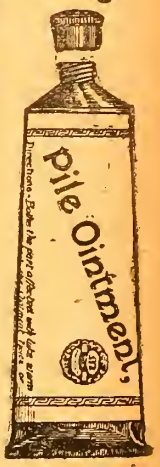

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Garnet File one side and Nail Powder Chamois the other.
1 doz. in box, **5/-** doz. boxes.

OZONE RIBBON

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An efficacious preparation prepared with witch hazel, neatly packed in 1 oz. tubes, cartoned, complete with tubes, **7/6** doz.; spare tubes **3/-** doz.

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Adeps Lanæ, Anhydrous, Odourless, **10d.** per lb.

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. . THE . .

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Acetum Ipecac. B.P. 6 lbs. @ 1 3 lb.
,, Scillæ B.P. 6 lbs. @ 3d. lb.
Acetone. 6 lbs. @ 1/- lb.; 1 lb. @ 1 3.
Acid. Aceto-Salicylic. 28 lbs. @ 2/- lb.; 7 lbs. @ 2 1; 1 lb. @ 2 3. [lb.; 10 lbs. @ 6d.
Acid. Carbolic Cryst. B.P. Ice Cryst. 112 lbs. @ 5d.
Acid. Carbolic Detached Crystals. 56 lbs. @ 6½d. lb.; 10 lbs. @ 7½d.; 1-lb. Bots. 9d. each.
Acid. Citric Cryst. B.P. 1885. 1 cwt. @ 1 4½ lb.; 7 lbs. @ 1 5½; Pulv. ½d. extra.
Acid. Oxalic Cryst. 7 cwts. @ 3d. lb.; 1 cwt. @ 3¼d. lb.; 28 lbs. @ 3½d. [7 lbs. @ 1 1.
Acid. Salicylic Pulv. 1 cwt. @ 1/- lb.; 28 lbs. @ 1 0½;
Acid. Tartaric Pulv. English. 1 cwt. @ 10¼d. lb.; 28 lbs. @ 11¼d.; 7 lbs. @ 1/-.
Adeps Benz. B.P. 28 lbs. @ 8d. lb.
,, Lanæ Anhydrous B.P. 1 cwt. @ 51/- cwt.; 28 lbs. @ 6d. lb. [5½d. lb.
Adeps Lanæ Hydrous 1 cwt. @ 46/- cwt.; 28 lbs. @
Aloes Barb. Pulv. English Ground. 1 cwt. @ 58/- cwt.
,, Socot. Pulv. English Ground. 7 lbs. @ 1 3 lb.
Ammon. Carb. Lump. 1 cwt. @ 3½d. lb.; 28 lbs. @ 4½d.
Ammon. Sulphocyanid. Recryst. 28 lbs. @ 11d. lb.; 7 lbs. @ 1 2.
Aqua Anethi Conc. 1 to 40. 5 lbs. @ 2 4 lb.; 1 lb. @ 2 7.
,, Anisi Conc. 1 to 40. 5 lbs. @ 2 4 lb.; 1 lb. @ 2 7.
,, Cinnamomi Conc. 1 to 40. 5 lbs. @ 2 9 lb.; 1 lb. @ 3/-. [@ 2 7.
Aqua Menth. Pip. Conc. 1 to 40. 5 lbs. @ 2 4 lb.; 1 lb.
Aqua Rosæ Conc. 1 to 40. 1 lb. @ 6/- lb.
Balsam Copaibæ B.P. 44 lbs. @ 2 1 lb.; 9 lbs. @ 2 3; 1 lb. @ 2 6.
Benzo-Naphthol. 14 lbs. @ 2 4 lb.; 1 lb. @ 2 8.
Bismuth Carb. B.P. 14 lbs. @ 7 6 lb.; 3 lbs. @ 7 8; 1 lb. @ 7 10. [1 lb. @ 6 10.
Bismuth Subnit. B.P. 14 lbs. @ 6 6 lb.; 3 lbs. @ 6 8;
Butyl Chloral Hydras B.P. 1 lb. @ 8 8 lb.
Camphor English Flowers B.P. 5 lbs. @ 1 11 lb.
,, ,, Tablets ¼ and ½ oz. 7 lbs. @ 2 1 lb.
Cera Alba, Genuine, Moons. 28 lbs. @ 1 6½ lb.; 4 lbs. @ 1 7½. [1 5½.
Cera Flav., Genuine, Slabs. 28 lbs. @ 1 4½ lb.; 4 lbs. @
Cetaceum, B.P. 64 lbs. @ 1 3 lb.; 7 lbs. @ 1 5.
Chloral Hydras, Cryst. B.P. 7 lbs. @ 4 4 lb.; 1 lb. @ 4 7.
Chloroform, B.P. 12 × 8 lb. Bots. @ 1 6½ lb.; 8 lbs. @ 1 7½; 3 × 1 lb. Bots. @ 1 10½.
Cocain. Hydrochlor. B.P. 100 ozs. @ 7 4 oz.; 25 ozs. @ 7 6; 1 oz. @ 7 10. [7 lbs. @ 8d.
Cotton Wool, Absorbent, Interleaved. 28 lbs. @ 7d. lb.
Cream of Tartar, B.P. 1 cwt. @ 73 6 cwt.; 7 lbs. @ 9d. lb. [@ 2/-.
Creasotum Beechwood, B.P. 7 lbs. @ 1 9 lb.; 1 lb.
Dec. Sarsæ Jam. Co. Conc., 1 to 7. 6 lbs. @ 2 2 lb.
Emp. Picis B.P. 7 lbs. @ 8½d. lb.
,, Plumbi B.P. 7 lbs. @ 8d. lb.
,, Resinæ B.P. 7 lbs. @ 8d. lb.
,, Saponis B.P. 7 lbs. @ 8d. lb.
Ext. Cascaræ Sagradæ Liq. B.P. 6 lbs. @ 1 2 lb.
,, Ergotæ Liq. B.P. 1 lb. @ 2 10 lb.
,, Glycyrrh. Liq. B.P. 6 lbs. @ 1 2 lb. [@ 3¼d.
Ferri et Quinin. Cit. B.P. 100 ozs. @ 3d. oz.; 25 ozs.
Formaldehyde, 40%. 132 lb. Carboys, 45/- each.
Gamboge, English Ground. 7 lbs. @ 3 9 lb.
Glycerine. Prices on application.
Hexamethylenetetramine. 28 lbs. @ 1 11 lb.; 7 lbs. @ 2/-; 1 lb. @ 2 3. [2 11.
Hydrarg. Ammon. B.P. 28 lbs. @ 2 10 lb.; 7 lbs. @
Hydrarg. Iodid. Rub. B.P. 28 lbs. @ 8/5 lb.; 7 lbs. @ 8 6. [@ 3 2.
Hydrarg. Oxid. Flav. B.P. 28 lbs. @ 3 1 lb.; 7 lbs.
,, Oxid. Rub. B.P. 28 lbs. @ 2 10 lb.; 7 lbs. @ 2 11. [@ 2/4½.
Hydrarg. Perchlor. B.P. 28 lbs. @ 2/3½ lb.; 7 lbs.
,, Subchlor. B.P. 28 lbs. @ 2/7 lb.; 7 lbs. @ 2 8.
Ichthyol Ammon. 3 lbs. @ 10/6 lb.; 1 lb. @ 10 9.
Infus. Aurant. Co. Conc., 1 to 7. 6 lbs. @ 1 1 lb.
,, Buchu Conc., 1 to 7. 6 lbs. @ 1 3 lb.
,, Calumbæ Conc., 1 to 7. 6 lbs. @ 11d. lb.
,, Gentian Co. Conc., 1 to 7. 6 lbs. @ 11d. lb.
,, Quassiæ Conc., 1 to 7. 6 lbs. @ 9d. lb.
,, Senegæ Conc., 1 to 7. 6 lbs. @ 1 10 lb.
Lin. Aconiti Meth. 6 lbs. @ 10d. lb.
,, Belladon. Meth. 6 lbs. @ 1 2 lb.
,, Camph. Ammon. Meth. 6 lbs. @ 11d. lb.
Lint, Surgeons'. 7 lbs. @ 1 2 lb.
Liq. Ammon. Acet. Conc., 1 to 7. 6 lbs. @ 9d. lb.
,, Bismuthi B.P. 6 lbs. @ 10½d.
Mel. Opt., Pale Set. 1 cwt. @ 36/- cwt.; 7 lbs. @ 5d. lb.
Mist. Sennæ Co. B.P. 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d.
Naphthaline, Candle, Marble or Flake. 1 cwt. @ 11/- cwt.; 28 lbs. @ 13/- cwt.
Opium Turc. (10½% Morphine). 7 lbs. @ 13 6 lb.; 1 lb. @ 14/-.
Phenacetin B.P. Pulv. 7 lbs. @ 2 7 lb.; 1 lb. @ 2 9.
Potassa Caustica Stick B.P. 28 lbs. @ 9d. lb.; 7 1-lb. Bots. @ 10d.
Potass. Bromid. B.P. 1 cwt. @ 10¼d. lb.; 28 lbs. @ 11d.; 7 lbs. @ 1/-. [@ 7 11; 1 lb. @ 8 2.
,, Iodid. B.P. 1 cwt. @ 7 6 lb.; 14 lbs. @ 7 8; 3 lbs.
Pulv. Glycyrrh. Co. B.P. 28 lbs. @ 30/- cwt.
Spt. Æther. Nit. B.P. 5 lbs. @ 3 5 lb.
,, Ammon. Aromat. B.P. 5 lbs. @ 2/9 lb.
Tinct. Aconiti B.P. 5 lbs. @ 2/8 lb.
,, Aloes B.P. 5 lbs. @ 2/- lb.
,, Aurantii Recens B.P. 5 lbs. @ 3/2 lb.
,, Belladonnæ B.P. 5 lbs. @ 2/8 lb.
,, Benzoin. Co. B.P. 5 lbs. @ 3/3 lb.
,, Buchu B.P. 5 lbs. @ 2 8 lb.
,, Calumbæ B.P. 5 lbs. @ 2 4 lb.
,, Camph. Co. B.P. 5 lbs. @ 2 4 lb.
,, Canthar. B.P. 5 lbs. @ 3/6 lb.
,, Capsici B.P. 5 lbs. @ 2 8 lb.
,, Cardam. Co. B.P. 5 lbs. @ 2 5 lb.
,, Catechu B.P. 5 lbs. @ 2 3 lb.
,, Chlorof. c. Morph. B.P. 1885. 5 lbs. @ 1 8 lb.
,, Cinchonæ B.P. 5 lbs. @ 3/- lb.
,, ,, Co B.P. 5 lbs. @ 3/-.
,, Digitalis B.P. 5 lbs. @ 2 6 lb.
,, Gelsemii B.P. 5 lbs. @ 2/7 lb.
,, Gent. Co. B.P. 5 lbs. @ 1/11 lb.
,, Guaiaci Ammon. B.P. 5 lbs. @ 3 2 lb.
,, Hyoscyam. B.P. 5 lbs. @ 2 7 lb.
,, Iodi B.P. 5 lbs. @ 3/9.
,, Lavand. Co. B.P. 5 lbs. @ 3 5 lb.
,, Myrrh. B.P. 5 lbs. @ 3 6 lb.
,, Nucis Vom. B.P. 5 lbs. @ 2 4 lb.
,, Opii B.P. 5 lbs. @ 2 9 lb.
,, ,, Aquosa. 5 lbs. @ 2/- lb.
,, Quinin. Ammon. B.P. 5 lbs. @ 2/4 lb.
,, Rhei Co. B.P. 5 lbs. @ 2 3 lb.
,, Scillæ B.P. 5 lbs. @ 2 5 lb.
,, Senegæ B.P. 5 lbs. @ 2 10 lb.
,, Zingib. B.P. 5 lbs. @ 3/6 lb.
,, ,, Fort. B.P. 1885. 5 lbs. @ 3/10 lb.

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SPECIALITY:
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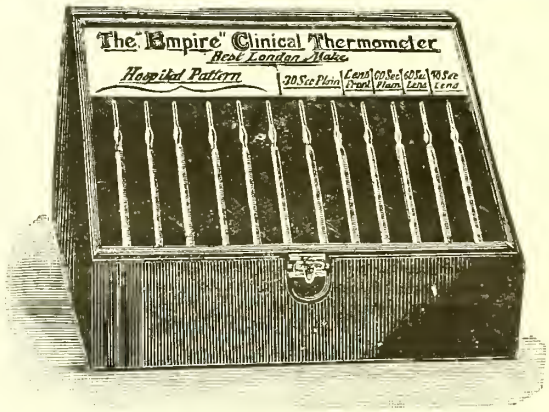

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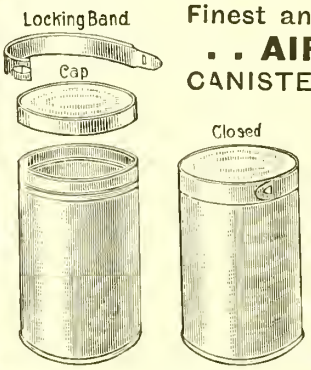

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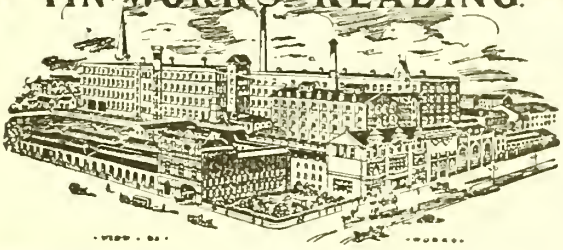

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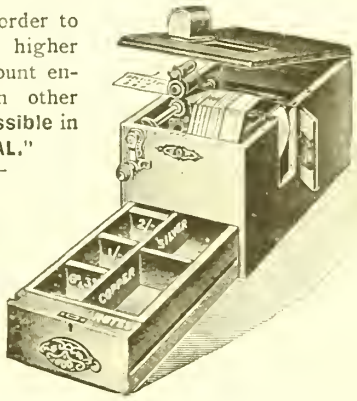

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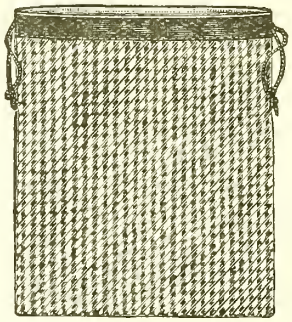

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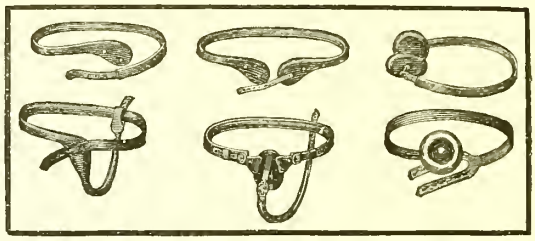

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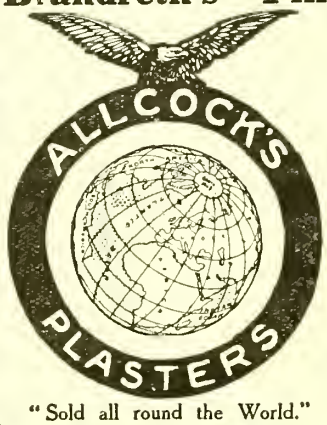

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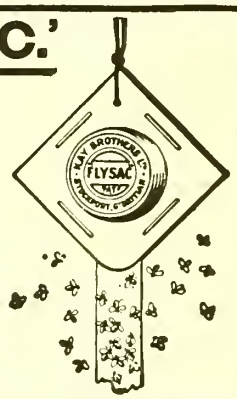

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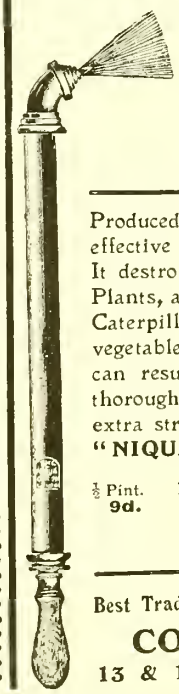

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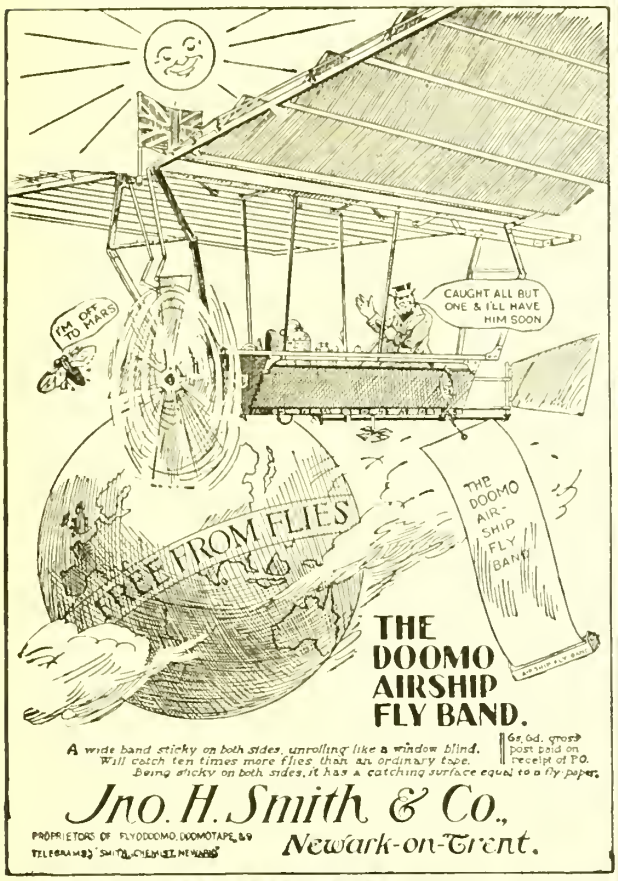

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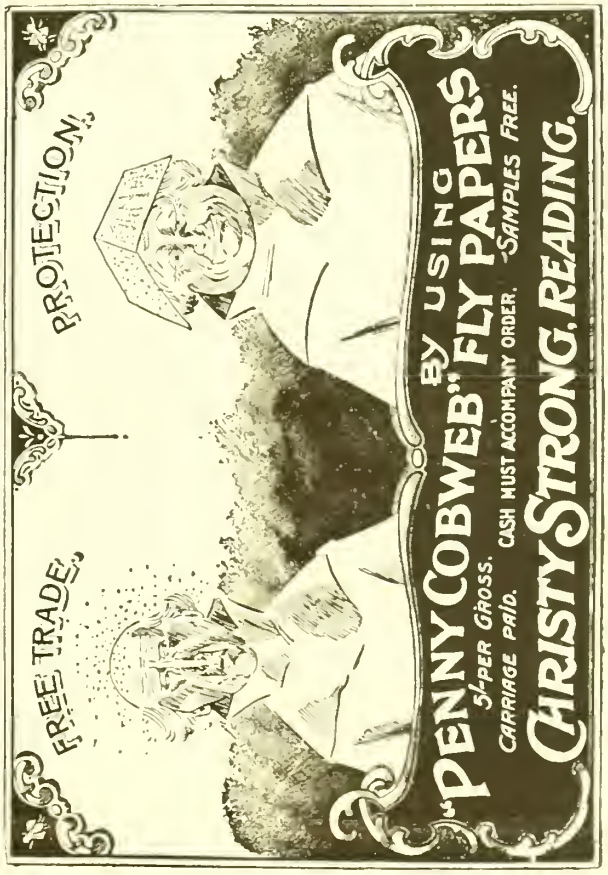

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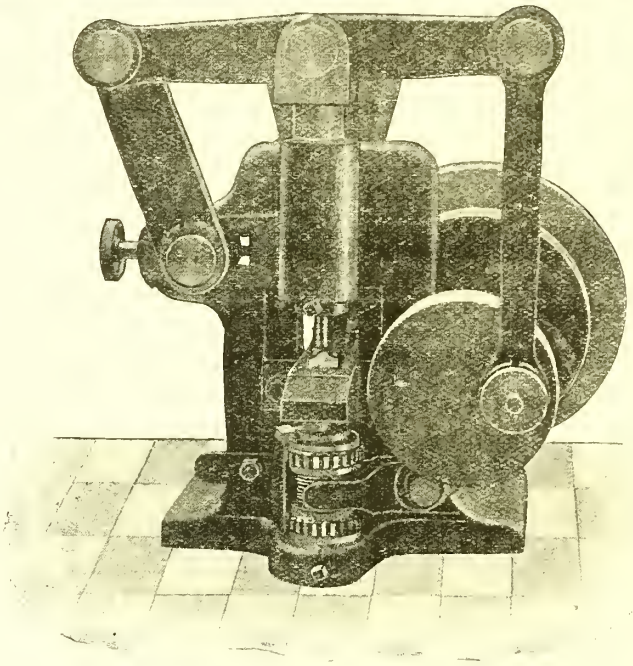

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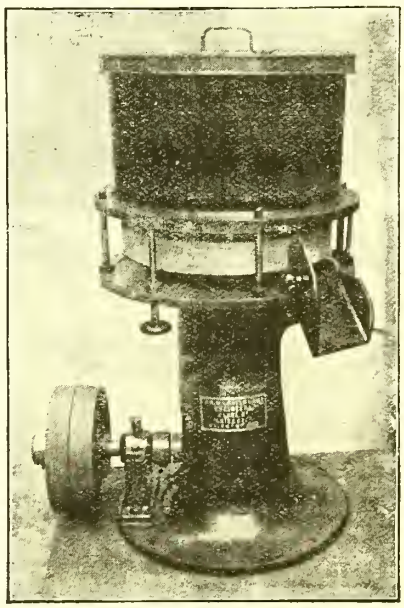

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CASH WITH ORDER.

1/1½ size Phosferine	...	10/2½	per dozen net
2/9 " "	...	25/6	" " "
4/6 " "	...	40/9½	" " "

5 GROSS LOTS (assorted sizes if required) subject to 1½ per cent. Cash Discount.

10 GROSS LOTS (assorted sizes if required) subject to 2½ per cent. Cash Discount.

PROTECTED PRICE.

The selling price of Phosferine is Protected, it must not be retailed in the United Kingdom under the following prices, viz.:—1/1½ size for **1/-**, the 2/9 size for **2/6**, 4/6 size for **4/-**.

Full prices to be obtained when possible.

PHOSFERINE

The Greatest of all Tonics,

Is a good paying line for Chemists—the Retail price is protected, and, as it contains nothing poisonous, it can be sold without restriction.

Being a highly Concentrated Medicine, its storage occupies very little of the valuable space in a Pharmacy.

It is one of the largest advertised medicines in the kingdom, and sells freely.

It can be recommended with the greatest confidence for all Nerve Pains, Nervous Disorders, Rheumatism, Nervous Headache, Dyspepsia, General Debility, &c.

ROYAL COMMANDS.

PHOSFERINE has been supplied by Command of

Members of the British Royal Family,
H.I.M. The Empress of Russia,
H.M. The King of Greece,
H.I.M. The Dowager Empress of Russia,
H.M. The Queen of Roumania,
&c., &c., [1]

A recommendation that can be claimed for no other Proprietary Medicine.

ASHTON & PARSONS, LTD.

LA BELLE SAUVAGE, LUDGATE HILL, **LONDON, E.C.**

CAUTION.

To Imitators or Dealers in Imitations of

PHOSFERINE.

PERPETUAL INJUNCTION

WITH

DAMAGES AND COSTS,

obtained against Frederick John Fowles for using the word

PHOSFEROUIN.

In the High Court of Justice,

CHANCERY DIVISION.

Before MR. JUSTICE COZENS-HARDY.

Between ASHTON & PARSONS, LIMITED,
Proprietors of "Phosferine" *(Plaintiffs)*
AND
FREDERICK JOHN FOWLES (*Defendant*).

A PERPETUAL INJUNCTION with damages and costs was granted on the 14th December, 1900, restraining the above-named Defendant, his servants and agents from in any manner infringing the Plaintiffs' Registered Trade Mark, 6,530, and from selling or offering or exposing or advertising for sale or procuring to be sold any medical preparation not prepared by the Plaintiffs under the name of "Phosferine" or under any other name which by colourable imitation of the Plaintiffs' word "Phosferine" or otherwise was calculated to represent or lead to the belief that such preparation is "Phosferine" or is a preparation of the Plaintiffs, and from selling or supplying any such preparation as aforesaid in response to orders for "Phosferine" or for a preparation of the Plaintiffs or from otherwise passing off or enabling or assisting others to pass off any such preparation as aforesaid as or for "Phosferine" or a preparation of the Plaintiffs.

All information relating to the infringement or dealers in infringements of "Phosferine" will be confidentially treated, and should be addressed to the proprietors of "Phosferine,"

ASHTON & PARSONS, LTD.

LA BELLE SAUVAGE, LUDGATE HILL, **LONDON, E.C.**

Or to Messrs. J. E. EVANS-JACKSON & CO., Patent Agents, Bristol House, Holborn Viaduct, E.C.

You will materially increase your profits if you explain to your customers the luxury and convenience of the

AutoStrop SAFETY RAZOR

They will gladly pay a guinea for the AutoStrop when they are shown that it is the only safety razor that keeps itself sharp. Demonstrate and prove it to them.

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Retail .... 21/- net.

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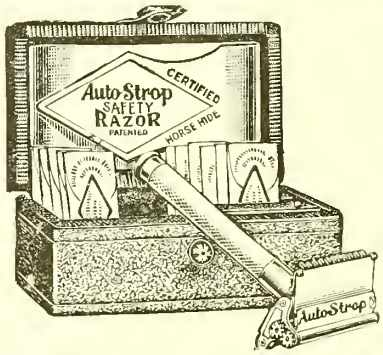
3 doz. lots ... 14/- each.

Smaller quantities 14/9 ,,



The self-contained stropping arrangement and the simplicity of the AutoStrop Safety Razor ensure quick, convenient, luxurious shaving, with all possible economy.

The only Safety Razor that does not involve continual expense for new blades.
Almost all the large Wholesalers now stock the AutoStrop.

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Super English Made Cases, White or Assorted Colours, **8 –** „
Cheaper Quality „ „ „ „ **4 6** „

WHITE METAL.

Plain, **8 -** per dozen. 9 Fancy Patterns, **9 6** per dozen.
Also in Britannia Metal, Glass and Metal, &c., &c.

SPONGE BAGS.

	No. 1	2	3	4	5	6	
CHECK CAMBRIC, Super Quality	6 6	7 6	9 6	12/-	13 6	17/-	doz.
„ „ "Best Ordinary"	5/-	6 3	7 6	9/-	11/-	13/-	„
„ „ Export Quality	2 9	3 6	4/-	5/-	5 6	6/-	„
DOUBLE PROOF, Chocolate Brown	7/-	8 6	10/-	11 6	13/-	14 6	„

SPECIAL LINES, No. 4 size only.

DOUBLE PROOF LIGHT FANCY CHECK - - - **8/-** doz.
ASSORTED SATEEN FANCY - - - - - - - **6 6** „

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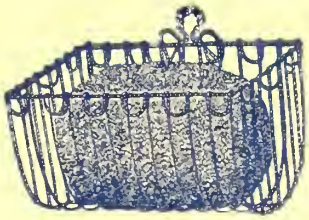
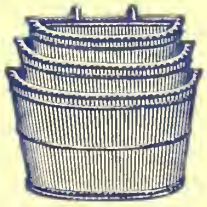


Lustral Wire,
4 9, **5 6**, **7 –**, **8 –** and **9 –**
per doz.



Wicker,
Sets of 3, **2 3**
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WE REFUSE to supply the Dairyman.
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Free Literature for Distribution.

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